

ภาคผนวก

## รูปแบบการเขียนโปรแกรมด้วยภาษา Turbo C++

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#include <stdio.h>
#include <conio.h>
#include <dos.h>
#include <stdlib.h>
#include <ctype.h>
void main(void){
    int j,i,k,x,y;char string[81];char ch;clrscr();
    textbackground(BLACK);clrscr();window(1,2,79,25);textbackground(BLACK);
    clrscr();textcolor(15);window(1,2,79,25);
    for(k=1;k<77;k++){string[k]=196;}string[78]='\0';string[0]=218;string[77]=191;
    gotoxy (1,1);
    cputs(string);string[0]=192;string[77]=217;gotoxy(1,23);cputs(string);
    for(k=2;k<23;k++){gotoxy(1,k);putch(179);gotoxy(78,k);putch(179);}
    textbackground(BLACK);textcolor(15);window(2,3,78,24);
    for(k=1;k<75;k++){string[k]=196;}string[76]='\0';string[0]=218;string[75]=191;
    gotoxy(1,1);
    cputs(string);string[0]=192;string[75]=217;gotoxy(1,21);cputs(string);
    for(k=2;k<21;k++){gotoxy(1,k);putch(179);gotoxy(76,k);putch(179);}
    textcolor(13);window(30,5,50,7);gotoxy(5,2);cputs("โปรดกดปุ่ม Enter");
    _setcursortype(_NOCURSOR);
    textbackground(RED);textcolor(YELLOW);window(21,2,61,4);
    for(j=1;j<39;j++){string[j]=196;}string[40]='\0';string[0]=218;string[39]=191;gotoxy(1,1);
    cputs(string);string[0]=192;string[39]=217;gotoxy(1,3);cputs(string);
    for(j=2;j<3;j++){gotoxy(1,j);putch(179);gotoxy(40,j);putch(179);}
    textcolor(BLUE);gotoxy(2,2);cprintf("โปรแกรมส่งข้อความทางเพจเจอร์ของคนตาบอด");
    getch();    textbackground(0);textcolor(2);window(15,22,35,24);
    gotoxy(1,1);cprintf("Enter=เริ่มพิมพ์ใหม่");
    textbackground(0);textcolor(5);window(45,22,65,24);
    gotoxy(1,1);cprintf("Esc=ออกจากโปรแกรม");
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textbackground(1);window(4,11,75,13);clrscr();textcolor(14);
for(j=1;j<70;j++){string[j]=196;}string[71]='\0';string[0]=218;
string[70]=191;gotoxy(1,1);cputs(string);string[0]=192;string[70]=217;gotoxy(1,3);
cputs(string);for(j=2;j<3;j++){gotoxy(1,j);putch(179);gotoxy(71,j);putch(179);}
textcolor(15);x=2;y=2;gotoxy(x,y);_setcursortype(_SOLIDCURSOR);
outportb(0x378,64);delay(50);outportb(0x378,0);
while((ch=getch())!=27){
    if(x>70){ sound(300);delay(500);nosound();getch();delline();clrscr();
        textbackground(1);window(4,11,75,13);clrscr();textcolor(14);
        for(j=1;j<70;j++){string[j]=196;}string[71]='\0';string[0]=218;
        string[70]=191;gotoxy(1,1);cputs(string);string[0]=192;string[70]=217;
        gotoxy(1,3);cputs(string);for(j=2;j<3;j++){gotoxy(1,j);putch(179);
        gotoxy(71,j);putch(179);}textcolor(15);x=2;y=2;gotoxy(x,y);}
    else{
        switch(ch){
            case '\r':delline();clrscr();textbackground(1);window(4,11,75,13);clrscr();
                textcolor(14);
                for(j=1;j<70;j++){string[j]=196;}string[71]='\0';string[0]=218;
                string[70]=191;gotoxy(1,1);cputs(string);string[0]=192;string[70]=217;
                gotoxy(1,3);cputs(string);for(j=2;j<3;j++){gotoxy(1,j);putch(179);
                gotoxy(71,j);putch(179);}textcolor(15);gotoxy(2,2);break;
            case 'A':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
                putch('l');putch('-');putch('z');outportb(0x378,1);delay(1000);
                outportb(0x378,2);delay(1000);outportb(0x378,8);delay(1000);
                outportb(0x378,64);delay(1000);outportb(0x378,0);delay(10000);
                outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
                outportb(0x378,1);delay(1000);outportb(0x378,64);delay(1000);
                outportb(0x378,0);delay(10000);break;
            case 'B':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
                putch('u');putch('-');putch('z');outportb(0x378,1);delay(1000);
                outportb(0x378,2);delay(1000);outportb(0x378,32);delay(1000);

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        outportb(0x378,64);delay(1000);outportb(0x378,0);delay(10000);
        outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        outportb(0x378,1);delay(1000);outportb(0x378,64);delay(1000);
        outportb(0x378,0);delay(10000);break;
    case 'C':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar('i');putchar('-');putchar('z');outportb(0x378,2);delay(1000);
        outportb(0x378,8);delay(1000);outportb(0x378,64);delay(1000);
        outportb(0x378,0);delay(10000);outportb(0x378,128);delay(1000);
        outportb(0x378,0);delay(50);outportb(0x378,1);delay(1000);
        outportb(0x378,64);delay(1000);outportb(0x378,0);delay(10000);break;
    case 'D':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar('l');putchar('-');putchar('r');putchar('z');outportb(0x378,1);
        delay(1000);outportb(0x378,4);delay(1000);outportb(0x378,16);
        delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
        delay(10000);outportb(0x378,128);delay(1000);outportb(0x378,0);
        delay(50);outportb(0x378,1);delay(1000);outportb(0x378,64);
        delay(1000);outportb(0x378,0);delay(10000);break;
    case 'E':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar('t');putchar('-');putchar('b');putchar('z');outportb(0x378,1);
        delay(1000);outportb(0x378,8);delay(1000);outportb(0x378,32);
        delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
        delay(10000);outportb(0x378,128);delay(1000);outportb(0x378,0);
        delay(50);outportb(0x378,1);delay(1000);outportb(0x378,64);
        delay(1000);outportb(0x378,0);delay(10000);break;
    case 'F':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar('i');putchar('-');putchar('b');outportb(0x378,1);delay(1000);
        outportb(0x378,8);delay(1000);outportb(0x378,32);delay(1000);
        outportb(0x378,64);delay(1000);outportb(0x378,0);break;
    case 'G':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar('l');putchar('r');putchar('b');putchar('z');outportb(0x378,1);
        delay(1000);outportb(0x378,2);delay(1000);outportb(0x378,4);

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delay(1000);outportb(0x378,16);delay(1000);outportb(0x378,32);
delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
delay(10000);outportb(0x378,128);delay(1000);outportb(0x378,0);
delay(50);outportb(0x378,1);delay(1000);outportb(0x378,64);
delay(1000);outportb(0x378,0);delay(10000);break;
case 'H':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
putch('l');putch('^');putch('e');outportb(0x378,1);delay(1000);
outportb(0x378,2);delay(1000);outportb(0x378,4);delay(1000);
outportb(0x378,16);delay(1000);outportb(0x378,32);delay(1000);
outportb(0x378,64);delay(1000);outportb(0x378,0);break;
case 'I': outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
putch('l');putch('^');putch('e');putch('z');outportb(0x378,1);
delay(1000);outportb(0x378,2);delay(1000);outportb(0x378,4);
delay(1000);outportb(0x378,8);delay(1000);outportb(0x378,16);
delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
delay(10000);outportb(0x378,128);delay(1000);outportb(0x378,0);
delay(50);outportb(0x378,1);delay(1000);outportb(0x378,64);
delay(1000);outportb(0x378,0);delay(10000);break;
case 'J':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
putch('l');putch('^');putch('e');outportb(0x378,1);delay(1000);
outportb(0x378,2);delay(1000);outportb(0x378,4);delay(1000);
outportb(0x378,8);delay(1000);outportb(0x378,16);delay(1000);
outportb(0x378,64);delay(1000);outportb(0x378,0);delay(10000);break;
case 'K':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
putch('^');putch('u');putch('z');outportb(0x378,1);delay(1000);
outportb(0x378,16);delay(1000);outportb(0x378,64);
delay(1000);outportb(0x378,0);delay(10000);outportb(0x378,128);
delay(1000);outportb(0x378,0);delay(50);outportb(0x378,1);
delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
delay(10000);break;
case 'L':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);

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    putchar('r');putchar(' ');outportb(0x378,1);delay(1000); outportb(0x378,16);
    delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
    delay(10000);break;
case 'M':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
    putchar('l');putchar('-');putchar('r');outportb(0x378,2);delay(1000);
    outportb(0x378,4);delay(1000);outportb(0x378,16);delay(1000);
    outportb(0x378,64);delay(1000);outportb(0x378,0);delay(10000);break;
case 'N':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
    cputs("");outportb(0x378,4);delay(1000);outportb(0x378,64);
    delay(1000);outportb(0x378,0);delay(10000);break;
case 'O':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
    putchar('');putchar(' ');outportb(0x378,2);delay(1000);outportb(0x378,4);
    delay(1000);outportb(0x378,32);delay(1000);outportb(0x378,64);
    delay(1000);outportb(0x378,0);delay(10000);break;
case 'P':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
    putchar(' ');putchar("");outportb(0x378,4);delay(1000);outportb(0x378,16);
    delay(1000);outportb(0x378,32);delay(1000);outportb(0x378,64);
    delay(1000);outportb(0x378,0);delay(10000);break;
case 'Q':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
    cputs(" ");outportb(0x378,32);delay(1000);outportb(0x378,64);
    delay(1000);outportb(0x378,0);delay(10000);outportb(0x378,128);
    delay(1000);outportb(0x378,0);delay(50);outportb(0x378,2);
    delay(1000);outportb(0x378,4);delay(1000);outportb(0x378,32);
    delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
    delay(10000);break;
case 'R':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
    cputs(" ");outportb(0x378,4);delay(1000);outportb(0x378,16);
    delay(1000);outportb(0x378,32);delay(1000);outportb(0x378,64);
    delay(1000);outportb(0x378,0);delay(10000);outportb(0x378,128);
    delay(1000);outportb(0x378,0);delay(50);outportb(0x378,4);
    delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);

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        delay(10000);break;
case '0':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,4);delay(1000);outportb(0x378,8);
        delay(1000);outportb(0x378,16);delay(1000);outportb(0x378,32);
        delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
        delay(10000);outportb(0x378,128);delay(1000);outportb(0x378,0);
        delay(50);outportb(0x378,2);delay(1000);outportb(0x378,4);
        delay(1000);outportb(0x378,8);delay(1000);outportb(0x378,16);
        delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
        delay(10000);break;
case '1':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,4);delay(1000);outportb(0x378,8);
        delay(1000);outportb(0x378,16);delay(1000);outportb(0x378,32);
        delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
        delay(10000);outportb(0x378,128);delay(1000);outportb(0x378,0);
        delay(50);outportb(0x378,1);delay(1000);outportb(0x378,64);
        delay(1000);outportb(0x378,0);delay(10000);break;
case '2':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,4);delay(1000);outportb(0x378,8);
        delay(1000);outportb(0x378,16);delay(1000);outportb(0x378,32);
        delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
        delay(10000);outportb(0x378,128);delay(1000);outportb(0x378,0);
        delay(50);outportb(0x378,1);delay(1000);outportb(0x378,2);
        delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
        delay(10000);break;
case '3':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,4);delay(1000);outportb(0x378,8);
        delay(1000);outportb(0x378,16);delay(1000);outportb(0x378,32);
        delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
        delay(10000);outportb(0x378,128);delay(1000);outportb(0x378,0);
        delay(50);outportb(0x378,1);delay(1000);outportb(0x378,8);
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    delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
    delay(10000);break;
case '4':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
    putchar(ch);outportb(0x378,4);delay(1000);outportb(0x378,8);
    delay(1000);outportb(0x378,16);delay(1000);outportb(0x378,32);
    delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
    delay(10000);outportb(0x378,128);delay(1000);outportb(0x378,0);
    delay(50);outportb(0x378,1);delay(1000);outportb(0x378,8);
    delay(1000);outportb(0x378,16);delay(1000);outportb(0x378,64);
    delay(1000);outportb(0x378,0);delay(10000);break;
case '5':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
    putchar(ch);outportb(0x378,4);delay(1000);outportb(0x378,8);
    delay(1000);outportb(0x378,16);delay(1000);outportb(0x378,32);
    delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
    delay(10000);outportb(0x378,128);delay(1000);outportb(0x378,0);
    delay(50);outportb(0x378,1);delay(1000);outportb(0x378,16);
    delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
    delay(10000);break;
case '6':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
    putchar(ch);outportb(0x378,4);delay(1000);outportb(0x378,8);
    delay(1000);outportb(0x378,16);delay(1000);outportb(0x378,32);
    delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
    delay(10000);outportb(0x378,128);delay(1000);outportb(0x378,0);
    delay(50);outportb(0x378,1);delay(1000);outportb(0x378,2);
    delay(1000);outportb(0x378,8);delay(1000);outportb(0x378,64);
    delay(1000);outportb(0x378,0);delay(10000);break;
case '7':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
    putchar(ch);outportb(0x378,4);delay(1000);outportb(0x378,8);
    delay(1000);outportb(0x378,16);delay(1000);outportb(0x378,32);
    delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
    delay(10000);outportb(0x378,128);delay(1000);outportb(0x378,0);
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delay(50);outportb(0x378,1);delay(1000);outportb(0x378,2);
delay(1000);outportb(0x378,8);delay(1000);outportb(0x378,16);
delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
delay(10000);break;
case '8':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
putch(ch);outportb(0x378,4);delay(1000);outportb(0x378,8);
delay(1000);outportb(0x378,16);delay(1000);outportb(0x378,32);
delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
delay(10000);outportb(0x378,128);delay(1000);outportb(0x378,0);
delay(50);outportb(0x378,1);delay(1000);outportb(0x378,2);
delay(1000);outportb(0x378,16);delay(1000);outportb(0x378,64);
delay(1000);outportb(0x378,0);delay(10000);break;
case '9':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
putch(ch);outportb(0x378,4);delay(1000);outportb(0x378,8);
delay(1000);outportb(0x378,16);delay(1000);outportb(0x378,32);
delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
delay(10000);outportb(0x378,128);delay(1000);outportb(0x378,0);
delay(50);outportb(0x378,2);delay(1000);outportb(0x378,8);
delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
delay(10000);break;
case 'a':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
putch(ch);outportb(0x378,1);delay(1000);outportb(0x378,64);
delay(1000);outportb(0x378,0);delay(10000);break;
case 'b':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
putch(ch);outportb(0x378,1);delay(1000);outportb(0x378,2);
delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
delay(10000);break;
case 'c':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
putch(ch);outportb(0x378,1);delay(1000);outportb(0x378,8);
delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
delay(10000);break;

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case 'd':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,8);
        delay(1000);outportb(0x378,16);delay(1000);outportb(0x378,64);
        delay(1000);outportb(0x378,0);delay(10000);break;
case 'e':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,16);
        delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
        delay(10000);break;
case 'f':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,2);
        delay(1000);outportb(0x378,8);delay(1000);outportb(0x378,64);
        delay(1000);outportb(0x378,0);delay(10000);break;
case 'g':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,2);
        delay(1000);outportb(0x378,8);delay(1000);outportb(0x378,16);
        delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
        delay(10000);break;
case 'h':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,2);
        delay(1000);outportb(0x378,16);delay(1000);outportb(0x378,64);
        delay(1000);outportb(0x378,0);delay(10000);break;
case 'i':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,2);delay(1000);outportb(0x378,8);
        delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
        delay(10000);break;
case 'j':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,2);delay(1000);outportb(0x378,8);
        delay(1000);outportb(0x378,16);delay(1000);outportb(0x378,64);
        delay(1000);outportb(0x378,0);delay(10000);break;
case 'k':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,4);
```

```
        delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
        delay(10000);break;
    case 'l':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,2);
        delay(1000);outportb(0x378,4);delay(1000);outportb(0x378,64);
        delay(1000);outportb(0x378,0);delay(10000);break;
    case 'm':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,4);
        delay(1000);outportb(0x378,8);delay(1000);outportb(0x378,64);
        delay(1000);outportb(0x378,0);delay(10000);break;
    case 'n':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,4);
        delay(1000);outportb(0x378,8);delay(1000);outportb(0x378,16);
        delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
        delay(10000);break;
    case 'o':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,4);
        delay(1000);outportb(0x378,16);delay(1000);outportb(0x378,64);
        delay(1000);outportb(0x378,0);delay(10000);break;
    case 'p':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,2);
        delay(1000);outportb(0x378,4);delay(1000);outportb(0x378,8);
        delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
        delay(10000);break;
    case 'q':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,2);
        delay(1000);outportb(0x378,4);delay(1000);outportb(0x378,8);
        delay(1000);outportb(0x378,16);delay(1000);outportb(0x378,64);
        delay(1000);outportb(0x378,0);delay(10000);break;
    case 'r':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,2);
```

```
    delay(1000);outportb(0x378,4);delay(1000);outportb(0x378,16);
    delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
    delay(10000);break;
case 's':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
    putchar(ch);outportb(0x378,2);delay(1000);outportb(0x378,4);
    delay(1000);outportb(0x378,8);delay(1000);outportb(0x378,64);
    delay(1000);outportb(0x378,0);delay(10000);break;
case 't':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
    putchar(ch);outportb(0x378,2);delay(1000);outportb(0x378,4);
    delay(1000);outportb(0x378,8);delay(1000);outportb(0x378,16);
    delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
    delay(10000);break;
case 'u':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
    putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,4);
    delay(1000);outportb(0x378,32);delay(1000);outportb(0x378,64);
    delay(1000);outportb(0x378,0);delay(10000);break;
case 'v':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
    putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,2);
    delay(1000);outportb(0x378,4);delay(1000);outportb(0x378,32);
    delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
    delay(10000);break;
case 'w':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
    putchar(ch);outportb(0x378,2);delay(1000);outportb(0x378,8);
    delay(1000);outportb(0x378,16);delay(1000);outportb(0x378,32);
    delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
    delay(10000);break;
case 'x':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
    putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,4);
    delay(1000);outportb(0x378,8);delay(1000);outportb(0x378,32);
    delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
    delay(10000);break;
```

```

case 'y':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putch(ch);outportb(0x378,1);delay(1000);outportb(0x378,4);
        delay(1000);outportb(0x378,8);delay(1000);outportb(0x378,16);
        delay(1000);outportb(0x378,32);delay(1000);outportb(0x378,64);
        delay(1000);outportb(0x378,0);delay(10000);break;

case 'z':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putch(ch);outportb(0x378,1);delay(1000);outportb(0x378,4);
        delay(1000);outportb(0x378,16);delay(1000);outportb(0x378,32);
        delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
        delay(10000);break;

case '!':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putch(ch);outportb(0x378,2);delay(1000);outportb(0x378,4);
        delay(1000);outportb(0x378,16);delay(1000);outportb(0x378,64);
        delay(1000);outportb(0x378,0);delay(10000);break;

case "'":outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putch(ch);outportb(0x378,2);delay(1000);outportb(0x378,4);
        delay(1000);outportb(0x378,32);delay(1000);outportb(0x378,64);
        delay(1000);outportb(0x378,0);delay(10000);break;

case '#':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putch(ch);outportb(0x378,4);delay(1000);outportb(0x378,8);
        delay(1000);outportb(0x378,16);delay(1000);outportb(0x378,32);
        delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
        delay(10000);break;

case '(':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putch(ch);outportb(0x378,2);delay(1000);outportb(0x378,4);
        delay(1000);outportb(0x378,16);delay(1000);outportb(0x378,32);
        delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
        delay(10000);break;

case ')':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putch(ch);outportb(0x378,2);delay(1000);outportb(0x378,4);
        delay(1000);outportb(0x378,16);delay(1000);outportb(0x378,32);

```

```

        delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
        delay(10000);break;
    case ',':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,2);delay(1000);outportb(0x378,64);
        delay(1000);outportb(0x378,0);delay(10000);break;
    case '-':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,4);delay(1000);outportb(0x378,32);
        delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
        delay(10000);outportb(0x378,128);delay(1000);outportb(0x378,0);
        delay(50);outportb(0x378,4);delay(1000);outportb(0x378,32);
        delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
        delay(10000);break;
    case '.':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,2);delay(1000);outportb(0x378,16);
        delay(1000);outportb(0x378,32);delay(1000);outportb(0x378,64);
        delay(1000);outportb(0x378,0);delay(10000);break;
    case ':':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,2);delay(1000);outportb(0x378,16);
        delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
        delay(10000);break;
    case ';':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,2);delay(1000);outportb(0x378,4);
        delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
        delay(10000);break;
    case '?':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,2);delay(1000);outportb(0x378,4);
        delay(1000);outportb(0x378,32);delay(1000);outportb(0x378,64);
        delay(1000);outportb(0x378,0);delay(10000);break;
    case '_':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,4);delay(1000);outportb(0x378,32);
        delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);

```

```

        delay(10000);break;
case ' ':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,0);delay(1000);outportb(0x378,64);
        delay(1000);outportb(0x378,0);delay(10000);break;
case 'n':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,2);
        delay(1000);outportb(0x378,8);delay(1000);outportb(0x378,16);
        delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
        delay(10000);break;
case '1':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,4);
        delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
        delay(10000);break;
case '4':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,4);
        delay(1000);outportb(0x378,32);delay(1000);outportb(0x378,64);
        delay(1000);outportb(0x378,0);delay(10000);break;
case '7':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,4);delay(1000);outportb(0x378,36);
        delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
        delay(10000);outportb(0x378,128);delay(1000);outportb(0x378,0);
        delay(50);outportb(0x378,1);delay(1000);outportb(0x378,4);
        delay(1000);outportb(0x378,32);delay(1000);outportb(0x378,64);
        delay(1000);outportb(0x378,0);delay(10000);break;
case '8':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,32);delay(1000);outportb(0x378,64);
        delay(1000);outportb(0x378,0);delay(10000);outportb(0x378,128);
        delay(1000);outportb(0x378,0);delay(50);outportb(0x378,1);
        delay(1000);outportb(0x378,4);delay(1000);outportb(0x378,32);
        delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
        delay(10000);break;

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```
case '၂':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
    putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,2);
    delay(1000);outportb(0x378,8);delay(1000);outportb(0x378,16);
    delay(1000);outportb(0x378,32);delay(1000);outportb(0x378,64);
    delay(1000);outportb(0x378,0);delay(10000);break;
case '၃':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
    putchar(ch);outportb(0x378,2);delay(1000);outportb(0x378,8);
    delay(1000);outportb(0x378,16);delay(1000);outportb(0x378,64);
    delay(1000);outportb(0x378,0);delay(10000);break;
case '၄':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
    putchar(ch);outportb(0x378,4);delay(1000);outportb(0x378,8);
    delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
    delay(10000);break;
case '၅':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
    putchar(ch);outportb(0x378,4);delay(1000);outportb(0x378,8);
    delay(1000);outportb(0x378,32);delay(1000);outportb(0x378,64);
    delay(1000);outportb(0x378,0);delay(10000);break;
case '၆':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
    putchar(ch);outportb(0x378,2);delay(1000);outportb(0x378,4);
    delay(1000);outportb(0x378,8);delay(1000);outportb(0x378,32);
    delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
    delay(10000);break;
case '၇':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
    putchar(ch);outportb(0x378,32);delay(1000);outportb(0x378,64);
    delay(1000);outportb(0x378,0);delay(10000);outportb(0x378,128);
    delay(1000);outportb(0x378,0);delay(50);outportb(0x378,4);
    delay(1000);outportb(0x378,8);delay(1000);outportb(0x378,32);
    delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
    delay(10000);break;
case '၈':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
    putchar(ch);outportb(0x378,32);delay(1000);outportb(0x378,64);
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delay(1000);outportb(0x378,0);delay(10000);outportb(0x378,128);
delay(1000);outportb(0x378,0);delay(50);outportb(0x378,1);
delay(1000);outportb(0x378,4);delay(1000);outportb(0x378,8);
delay(1000);outportb(0x378,16);delay(1000);outportb(0x378,32);
delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
delay(10000);break;
case 'j':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
putch(ch);outportb(0x378,32);delay(1000);outportb(0x378,64);
delay(1000);outportb(0x378,0);delay(10000);outportb(0x378,128);
delay(1000);outportb(0x378,0);delay(50);outportb(0x378,1);
delay(1000);outportb(0x378,8);delay(1000);outportb(0x378,16);
delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
delay(10000);break;
case 'k':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
putch(ch);outportb(0x378,32);delay(1000);outportb(0x378,64);
delay(1000);outportb(0x378,0);delay(10000);outportb(0x378,128);
delay(1000);outportb(0x378,0);delay(50);outportb(0x378,1);
delay(1000);outportb(0x378,2);delay(1000);outportb(0x378,16);
delay(1000);outportb(0x378,32);delay(1000);outportb(0x378,64);
delay(1000);outportb(0x378,0);delay(10000);break;
case 'l':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
putch(ch);outportb(0x378,32);delay(1000);outportb(0x378,64);
delay(1000);outportb(0x378,0);delay(10000);outportb(0x378,128);
delay(1000);outportb(0x378,0);delay(50);outportb(0x378,2);
delay(1000);outportb(0x378,4);delay(1000);outportb(0x378,8);
delay(1000);outportb(0x378,16);delay(1000);outportb(0x378,64);
delay(1000);outportb(0x378,0);delay(10000);break;
case 'm':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
putch(ch);outportb(0x378,32);delay(1000);outportb(0x378,64);
delay(1000);outportb(0x378,0);delay(10000);outportb(0x378,128);
delay(1000);outportb(0x378,0);delay(50);outportb(0x378,2);

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```

delay(1000);outportb(0x378,4);delay(1000);outportb(0x378,8);
delay(1000);outportb(0x378,16);delay(1000);outportb(0x378,32);
delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
delay(10000);break;
case 'M':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
putch(ch);outportb(0x378,4);delay(1000);outportb(0x378,32);
delay(1000);outportb(0x378,64);delay(2000);outportb(0x378,0);
delay(10000);outportb(0x378,128);delay(1000);outportb(0x378,0);
delay(50);outportb(0x378,2);delay(1000);outportb(0x378,4);
delay(1000);outportb(0x378,8);delay(1000);outportb(0x378,16);
delay(1000);outportb(0x378,32);delay(1000);outportb(0x378,64);
delay(1000);outportb(0x378,0);delay(10000);break;
case 'N':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
putch(ch);outportb(0x378,32);delay(1000);outportb(0x378,64);
delay(1000);outportb(0x378,0);delay(10000);outportb(0x378,128);
delay(1000);outportb(0x378,0);delay(50);outportb(0x378,1);
delay(1000);outportb(0x378,4);delay(1000);outportb(0x378,8);
delay(1000);outportb(0x378,16);delay(1000);outportb(0x378,64);
delay(1000);outportb(0x378,0);delay(10000);break;
case 'O':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
putch(ch);outportb(0x378,1);delay(1000);outportb(0x378,8);
delay(1000);outportb(0x378,16);delay(1000);outportb(0x378,64);
delay(1000);outportb(0x378,0);delay(10000);break;
case 'P':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
putch(ch);outportb(0x378,1);delay(1000);outportb(0x378,2);
delay(1000);outportb(0x378,16);delay(1000);outportb(0x378,32);
delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
delay(10000);break;
case 'Q':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
putch(ch);outportb(0x378,2);delay(1000);outportb(0x378,4);
delay(1000);outportb(0x378,8);delay(1000);outportb(0x378,16);

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```

        delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
        delay(10000);break;
    case 'т':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,2);delay(1000);outportb(0x378,4);
        delay(1000);outportb(0x378,8);delay(1000);outportb(0x378,16);
        delay(1000);outportb(0x378,32);delay(1000);outportb(0x378,64);
        delay(1000);outportb(0x378,0);delay(10000);break;
    case 'д':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,4);delay(1000);outportb(0x378,16);
        delay(1000);outportb(0x378,32);delay(1000);outportb(0x378,64);
        delay(1000);outportb(0x378,0);delay(10000);outportb(0x378,128);
        delay(1000);outportb(0x378,0);delay(50);outportb(0x378,2);
        delay(1000);outportb(0x378,4);delay(1000);outportb(0x378,8);
        delay(1000);outportb(0x378,16);delay(1000);outportb(0x378,32);
        delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
        delay(10000);break;
    case 'д':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,4);
        delay(1000);outportb(0x378,8);delay(1000);outportb(0x378,16);
        delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
        delay(10000);break;
    case 'л':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,2);
        delay(1000);outportb(0x378,4);delay(1000);outportb(0x378,32);
        delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
        delay(10000);break;
    case 'л':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,2);
        delay(1000);outportb(0x378,4);delay(1000);outportb(0x378,8);
        delay(1000);outportb(0x378,32);delay(1000);outportb(0x378,64);
        delay(1000);outportb(0x378,0);delay(10000);break;

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```
case 'W':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
    putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,2);
    delay(1000);outportb(0x378,4);delay(1000);outportb(0x378,8);
    delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
    delay(10000);break;

case 'W':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
    putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,4);
    delay(1000);outportb(0x378,8);delay(1000);outportb(0x378,32);
    delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
    delay(10000);break;

case 'W':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
    putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,8);
    delay(1000);outportb(0x378,16);delay(1000);outportb(0x378,32);
    delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
    delay(10000);break;

case 'W':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
    putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,2);
    delay(1000);outportb(0x378,8);delay(1000);outportb(0x378,32);
    delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
    delay(10000);break;

case 'W':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
    putchar(ch);outportb(0x378,32);delay(1000);outportb(0x378,64);
    delay(1000);outportb(0x378,0);delay(10000);outportb(0x378,128);
    delay(1000);outportb(0x378,0);delay(50);outportb(0x378,1);
    delay(1000);outportb(0x378,8);delay(1000);outportb(0x378,16);
    delay(1000);outportb(0x378,32);delay(1000);outportb(0x378,64);
    delay(1000);outportb(0x378,0);delay(10000);break;

case 'W':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
    putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,4);
    delay(1000);outportb(0x378,8);delay(1000);outportb(0x378,64);
    delay(1000);outportb(0x378,0);delay(10000);break;
```

```

case 't':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
    putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,4);
    delay(1000);outportb(0x378,8);delay(1000);outportb(0x378,16);
    delay(1000);outportb(0x378,32);delay(1000);outportb(0x378,64);
    delay(1000);outportb(0x378,0);delay(10000);break;

case 'r':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
    putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,2);
    delay(1000);outportb(0x378,4);delay(1000);outportb(0x378,16);
    delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
    delay(10000);break;

case 'q':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
    putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,2);
    delay(1000);outportb(0x378,4);delay(1000);outportb(0x378,16);
    delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
    delay(10000);outportb(0x378,128);delay(2000);outportb(0x378,0);
    delay(50);outportb(0x378,2);delay(1000);outportb(0x378,64);
    delay(1000);outportb(0x378,0);delay(10000);break;

case 's':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
    putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,2);
    delay(1000);outportb(0x378,4);delay(1000);outportb(0x378,64);
    delay(1000);outportb(0x378,0);delay(10000);break;

case 'j':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
    putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,2);
    delay(1000);outportb(0x378,4);delay(1000);outportb(0x378,64);
    delay(1000);outportb(0x378,0);delay(10000);outportb(0x378,128);
    delay(1000);outportb(0x378,0);delay(50);outportb(0x378,2);
    delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
    delay(10000);break;

case 'a':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
    putchar(ch);outportb(0x378,2);delay(1000);outportb(0x378,8);
    delay(1000);outportb(0x378,16);delay(1000);outportb(0x378,32);

```

```

        delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
        delay(10000);break;
    case 'A':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,32);delay(1000);outportb(0x378,64);
        delay(1000);outportb(0x378,0);delay(10000);outportb(0x378,128);
        delay(1000);outportb(0x378,0);delay(50);outportb(0x378,2);
        delay(1000);outportb(0x378,4);delay(1000);outportb(0x378,8);
        delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
        delay(10000);break;
    case 'B':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,4);delay(1000);outportb(0x378,32);
        delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
        delay(10000);outportb(0x378,128);delay(1000);outportb(0x378,0);
        delay(50);outportb(0x378,2);delay(1000);outportb(0x378,4);
        delay(1000);outportb(0x378,8);delay(1000);outportb(0x378,64);
        delay(1000);outportb(0x378,0);delay(10000);break;
    case 'C':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,2);delay(1000);outportb(0x378,4);
        delay(1000);outportb(0x378,8);delay(1000);outportb(0x378,64);
        delay(1000);outportb(0x378,0);delay(10000);break;
    case 'D':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,2);
        delay(1000);outportb(0x378,16);delay(1000);outportb(0x378,64);
        delay(1000);outportb(0x378,0);delay(10000);break;
    case 'E':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,32);delay(1000);outportb(0x378,64);
        delay(1000);outportb(0x378,0);delay(10000);outportb(0x378,128);
        delay(1000);outportb(0x378,0);delay(50);outportb(0x378,1);
        delay(1000);outportb(0x378,2);delay(1000);outportb(0x378,4);
        delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
        delay(10000);break;

```

```

case 'E':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,2);
        delay(1000);outportb(0x378,4);delay(1000);outportb(0x378,8);
        delay(1000);outportb(0x378,16);delay(1000);outportb(0x378,32);
        delay(1000);outportb(0x378,64);delay(2000);outportb(0x378,0);
        delay(10000);break;
case 'Z':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,64);
        delay(1000);outportb(0x378,0);delay(10000);break;
case 'M':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,4);delay(1000);outportb(0x378,8);
        delay(1000);outportb(0x378,16);delay(1000);outportb(0x378,64);
        delay(1000);outportb(0x378,0);delay(10000);break;
case 'A':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,32);
        delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
        delay(10000);break;
case 'N':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,4);
        delay(1000);outportb(0x378,16);delay(1000);outportb(0x378,32);
        delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
        delay(10000);break;
case 'O':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,2);
        delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
        delay(10000);break;
case 'M':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);

```

```

    putchar(ch);outportb(0x378,2);delay(1000);outportb(0x378,4);
    delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
    delay(10000);break;
case 'n':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
    putchar(ch);outportb(0x378,2);delay(1000);outportb(0x378,8);
    delay(1000);outportb(0x378,32);delay(1000);outportb(0x378,64);
    delay(1000);outportb(0x378,0);delay(10000);break;
case 'm':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
    putchar(ch);outportb(0x378,2);delay(1000);outportb(0x378,32);
    delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
    delay(10000);break;
case 'j':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
    putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,8);
    delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
    delay(10000);break;
case 'i':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
    putchar(ch);outportb(0x378,2);delay(1000);outportb(0x378,16);
    delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
    delay(10000);break;
case 'l':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
    putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,2);
    delay(1000);outportb(0x378,8);delay(1000);outportb(0x378,64);
    delay(1000);outportb(0x378,0);delay(10000);break;
case 'u':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
    putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,2);
    delay(1000);outportb(0x378,32);delay(1000);outportb(0x378,64);
    delay(1000);outportb(0x378,0);delay(10000);break;
case 'r':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
    putchar(ch);outportb(0x378,2);delay(1000);outportb(0x378,8);
    delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
    delay(10000);break;

```



```

        delay(1000);outportb(0x378,0);delay(10000);outportb(0x378,128);
        delay(1000);outportb(0x378,0);delay(50);outportb(0x378,2);
        delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
        delay(10000);break;
    case 'l':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,1);delay(1000);outportb(0x378,16);
        delay(1000);outportb(0x378,32);delay(1000);outportb(0x378,64);
        delay(1000);outportb(0x378,0);delay(10000);break;
    case 'm':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,2);delay(1000);outportb(0x378,64);
        delay(1000);outportb(0x378,0);delay(10000);break;
    case 'n':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,4);delay(1000);outportb(0x378,64);
        delay(1000);outportb(0x378,0);delay(10000);break;
    case 'o':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,4);delay(1000);outportb(0x378,16);
        delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
        delay(10000);break;
    case 'p':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,2);delay(1000);outportb(0x378,16);
        delay(1000);outportb(0x378,32);delay(1000);outportb(0x378,64);
        delay(1000);outportb(0x378,0);delay(10000);break;
    case 'q':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,2);delay(1000);outportb(0x378,4);
        delay(1000);outportb(0x378,16);delay(1000);outportb(0x378,32);
        delay(1000);outportb(0x378,64);delay(1000);outportb(0x378,0);
        delay(10000);break;
    case 'r':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);

```

```

        putchar(ch);outportb(0x378,2);delay(1000);outportb(0x378,4);
        delay(1000);outportb(0x378,32);delay(1000);outportb(0x378,64);
        delay(1000);outportb(0x378,0);delay(10000);break;
    case 'f':outportb(0x378,128);delay(1000);outportb(0x378,0);delay(50);
        putchar(ch);outportb(0x378,4);delay(1000);outportb(0x378,16);
        delay(1000);outportb(0x378,32);delay(1000);outportb(0x378,64);
        delay(1000);outportb(0x378,0);delay(10000);break;

```

)

```

    }x=wherex();y=wherey();
}
outportb(0x378,128);delay(50);outportb(0x378,0);
textbackground(BLACK);clrscr();window(1,2,79,25);
textbackground(BLACK);clrscr();textcolor(15);window(1,2,79,25);
for(k=1;k<77;k++){string[k]=196;}string[78]='\0';string[0]=218;string[77]=191;
gotoxy(1,1);cputs(string);string[0]=192;string[77]=217;gotoxy(1,23);cputs(string);
for(k=2;k<23;k++){gotoxy(1,k);putch(179);gotoxy(78,k);putch(179);}
textbackground(BLACK);textcolor(15);window(2,3,78,24);
for(k=1;k<75;k++){string[k]=196;}string[76]='\0';string[0]=218;string[75]=191;
gotoxy(1,1);cputs(string);string[0]=192;string[75]=217;gotoxy(1,21);cputs(string);
for(k=2;k<21;k++){gotoxy(1,k);putch(179);gotoxy(76,k);putch(179);}
_setcursortype(_NOCURSOR);
textbackground(RED);textcolor(YELLOW);window(21,2,61,4);
for(j=1;j<39;j++){string[j]=196;}string[40]='\0';string[0]=218;string[39]=191;
gotoxy(1,1);cputs(string);string[0]=192;string[39]=217;gotoxy(1,3);cputs(string);
for(j=2;j<3;j++){gotoxy(1,j);putch(179);gotoxy(40,j);putch(179);
textcolor(BLUE);gotoxy(2,2);cprintf("โปรแกรมส่งข้อความทางเพจเจอร์ของคนตามอด");}
textbackground(0);window(1,1,80,25);
textcolor(12);gotoxy(37,8);cprintf("จัดทำโดย");delay(1000);
textcolor(11);gotoxy(30,12);cprintf("นาย");gotoxy(30,15);cprintf("นาย");delay(500);
textcolor(10);gotoxy(35,12);cprintf("วิ");gotoxy(35,15);cprintf("วิ");delay(200);
gotoxy(37,12);cprintf("ต");gotoxy(37,15);cprintf("ต");delay(200);

```

```
gotoxy(45,12);cprintf("ท");gotoxy(45,15);cprintf("");delay(200);
gotoxy(46,12);cprintf("า");gotoxy(46,15);cprintf("า");delay(200);
gotoxy(47,12);cprintf("ง");gotoxy(47,15);cprintf("ง");delay(200);
gotoxy(48,12);cprintf("ล");gotoxy(48,15);cprintf("ล");delay(200);
gotoxy(49,12);cprintf("า");gotoxy(49,15);cprintf("า");delay(200);
gotoxy(50,12);cprintf("น");gotoxy(50,15);cprintf("น");delay(200);
textcolor(13);gotoxy(22,20);cprintf("นักศึกษาชั้นปีที่ 4 คณะวิศวกรรมศาสตร์ เอกอุตสาหกรรม");
textcolor(14);gotoxy(30,22);cprintf("มหาวิทยาลัยนเรศวร จังหวัดพิษณุโลก");
delay(2000);textmode(-1);clrscr();
```

```
}
```