

LEVEL ONE (30*17)

```
#include <iostream>
#include <conio.h>
#include <stdio.h>
using namespace std;

void Background1(char X[][130])
{
    for (int r = 0; r < 24; r++)
    {
        for (int c = 0; c < 75; c++)
        {
            X[r][c] = ' ';
        }
    }

    for (int r = 0; r < 12; r++)
    {
        for (int c = 75; c < 80; c++)
        {
            X[r][c] = ' ';
        }
    }

    //big starting block
    for (int r = 20; r < 24; r++)
    {
        for (int c = 0; c < 7; c++)
        {
            X[r][c] = 178;
        }
    }
}
```

```
}

//path blocks
for (int c = 7; c < 80; c++)
{
    X[23][c] = 178;
}

//spikes
for (int c = 14; c < 18; c++)
{
    X[23][c] = 202;
}

//2 ladders with a surface at the top
for (int r = 17; r < 23; r++)
{
    X[r][24] = '|';
    X[r][25] = '_';
    X[r][26] = '|';
}
for (int c = 24; c < 44; c++)
{
    X[16][c] = 223;
}
for (int r = 17; r < 23; r++)
{
    X[r][41] = '|';
    X[r][42] = '_';
    X[r][43] = '|';
}
```

```
        //collectable item
        X[15][39] = 21;

        //end-level door
        for (int r = 13; r < 23; r++)
        {
            X[r][75] = 186;
        }
        X[12][75] = 201;
        for (int c = 76; c < 80; c++)
        {
            X[12][c] = 205;
        }

    }

//coins
void coinsX(char X[][130], int& flagcoin1, int& flagcoin2, int& flagcoin3)
{
    if (flagcoin1 == 1)
    {
        X[22][47] = ' ';
        X[9][9] = '1';
    }
    else
    {
        X[22][47] = 233;
    }

    if (flagcoin2 == 1)
```

```
        {
            X[22][49] = ' ';
            X[9][9] = '2';
        }
        else
        {
            X[22][49] = 233;
        }

        if (flagcoin3 == 1)
        {
            X[22][51] = ' ';
            X[9][9] = '3';
        }
        else
        {
            X[22][51] = 233;
        }
        X[9][2] = 'c';
        X[9][3] = 'o';
        X[9][4] = 'i';
        X[9][5] = 'n';
        X[9][6] = 's';
        X[9][7] = ':';
        X[9][8] = ' ';

    }
}
```

```
void itemX(char X[][130], int& checkitem)
{
    if (checkitem == 0)
    {
        X[15][39] = 21;
    }
}
```

```
        }
        else
        {
            X[15][39] = ' ';
        }

    }

void DrawArrowsX(char X[][130], int r, int c)
{
    X[r][c] = 239;
    X[r + 1][c] = '|';
    X[r + 2][c] = ' ';

}

void MoveArrowX(int& r, int& c, int& dirarrow)
{
    if (dirarrow == 1)
    {
        r++;
    }
    if (dirarrow == -1)
    {
        r--;
    }
    if (r == 23)
    {
        dirarrow = -1;
    }
    if (r == 21)
    {

```

```
        dirarrow = 1;
    }

}

void HarakHeroX(char X[][130], int& rHero, int& cHero, char mv, int& flagHeroJump,
int& flagHeroLadder1, int& flagHeroLadder2, int& ctj, int& ctl1, int& ctl2, int&
surfaceCheck, int& flagHeroEdge, int& cted)
{
    if (mv == 'w' && X[rHero - 1][cHero] != ' ')
    {
        rHero--;
    }

    if (mv == 's' && X[rHero + 3][cHero] == ' ' || cHero == 42)
    {
        if (rHero < 20)
        {
            rHero++;
        }
    }

    if (mv == 'a')
    {
        if (cHero > 1)
        {
            cHero--;
        }
    }
}
```

```
if (mv == 'd')
{
    if (cHero < 80)
    {
        cHero++;
    }
}

if (flagHeroJump == 1)
{
    if (ctj == 0)
    {
        rHero--;
        cHero++;
    }
    if (ctj == 1)
    {
        cHero++;
    }
    if (ctj == 2)
    {
        cHero++;
    }
    if (ctj == 3)
    {
        cHero++;
    }
    if (ctj == 4)
    {
        cHero++;
    }
}
```

```
    if (ctj == 5)
    {
        cHero++;
    }
    if (ctj == 6)
    {
        rHero++;
        cHero++;
    }
    ctj++;
    if (ctj > 6 && surfaceCheck == 0)
    {
        if (rHero < 20)
        {
            rHero++;
        }
        else
        {
            flagHeroJump = 0;
        }
    }
}

if (flagHeroLadder1 == 1)
{
    if (ctl1 == 0)
    {
        rHero--;
    }
    if (ctl1 == 1)
    {
```



```
        rHero--;  
    }  
    if (ctl1 == 2)  
    {  
        rHero--;  
    }  
    if (ctl1 == 3)  
    {  
        rHero--;  
        flagHeroLadder1 = 0;  
    }  
    ctl1++;  
}  
  
if (flagHeroLadder2 == 1)  
{  
    if (ctl2 == 0)  
    {  
        rHero++;  
    }  
    if (ctl2 == 1)  
    {  
        rHero++;  
    }  
  
    if (ctl2 == 2)  
    {  
        rHero++;  
        flagHeroLadder2 = 0;  
    }  
    ctl2++;  
}
```

```

    }

    if (flagHeroEdge == 1)
    {
        if (cted == 0)
        {
            rHero++;
        }
        if (cted == 1)
        {
            rHero++;
        }
        if (cted == 2)
        {
            rHero++;
            flagHeroEdge = 0;
        }
        cted++;
    }

}

void ErsemHeroX(char X[][130], int rHero, int cHero)
{
    X[rHero][cHero] = 1;
    X[rHero + 1][cHero] = 30;
    X[rHero + 1][cHero - 1] = '/';
    X[rHero + 1][cHero + 1] = '\\';
    X[rHero + 2][cHero - 1] = '/';
    X[rHero + 2][cHero + 1] = '\\';
}

```

```
}
```

```
void ErsemEnemy1(char X[][130], int rEnemy1, int cEnemy1)
```

```
{
```

```
    X[rEnemy1][cEnemy1] = 153;  
    X[rEnemy1 + 1][cEnemy1 - 1] = 185;  
    X[rEnemy1 + 1][cEnemy1 - 3] = 17;  
    X[rEnemy1 + 1][cEnemy1 + 1] = 185;  
    X[rEnemy1 + 2][cEnemy1] = 203;
```

```
}
```

```
void ErsemEnemy2(char X[][130], int rEnemy2, int cEnemy2)
```

```
{
```

```
    X[rEnemy2][cEnemy2] = 232;  
    X[rEnemy2 + 1][cEnemy2 - 1] = 201;  
    X[rEnemy2 + 1][cEnemy2] = 223;  
    X[rEnemy2 + 1][cEnemy2 + 1] = 187;
```

```
}
```

```
void HarakEnemy2(char X[][130], int& i)
```

```
{
```

```
    if (i <= 8)  
    {  
        int r = 13 + i;  
        X[r][76] = 220;  
        X[r][77] = 220;  
        X[r][78] = 220;  
        X[r][79] = 220;  
        i++;  
    }
```

```
}
```

```
void DisplayX(char X[][130], int& smvc)
{
    system("cls");
    int c;
    if (smvc - 5 >= 0 && smvc + 25 < 80)
    {
        for (int r = 7; r < 24; r++)
        {
            for (c = smvc - 5; c < 25 + smvc; c++)
            {
                cout << X[r][c];
            }
        }
    }
    else if (smvc + 25 >= 80)
    {
        for (int r = 7; r < 24; r++)
        {
            for (c = 50; c < 80; c++)
            {
                cout << X[r][c];
            }
        }
    }
    else
    {
        for (int r = 7; r < 24; r++)
        {
            for (c = 0; c < 30; c++)
            {
```

```

        cout << X[r][c];
    }
}

}

void main()
{
    int flagHeroJumpX = 0, ctj = 0, surfaceCheck = 0;
    char ch;
    int rarrow1x = 21, carrow1x = 59, dirarrow1x = 1;
    int rarrow2x = 21, carrow2x = 60, dirarrow2x = 1;
    int rarrow3x = 21, carrow3x = 61, dirarrow3x = 1;
    int rHerox = 17, cHerox = 3;
    int rEnemy1 = 13, cEnemy1 = 37;
    int rEnemy2 = 10, cEnemy2 = 77, e2startc = 76, e2endc = 79,
emy2r = 13, i = 0, k = 0;
    int doneladder = 0;
    int flagcoin1 = 0, flagcoin2 = 0, flagcoin3 = 0;
    int flagHeroLadder1 = 0, flagHeroLadder2 = 0;
    int ctl1 = 0, ctl2 = 0, SmasherCheck = 0, cts = 0, sbc = 31,
stc = 31;
    int checkitemx = 0, flagHeroEdge = 0, cted = 0, flagEnemy1 =
0, checkwin = 0, checklost = 0;
    int smvc = 0, phc = 1, phr = 0;
    char X[24][130];

    for (int r = 13; r < 23; r++)
    {
        for (int c = 76; c < 80; c++)
        {
            X[r][c] = ' ';

```

```

    }
}
for (int r = 0; r < 24; r++)
{
    for (int c = 80; c < 130; c++)
    {
        x[r][c] = 178;
    }
}
//LEVEL ONE

for (;;)
{
    for (; !_kbhit();)
    {
        Background1(X);
        coinsX(X, flagcoin1, flagcoin2, flagcoin3);
        itemX(X, checkitemx);
        MoveArrowX(rarrow1x, carrow1x, dirarrow1x);
        DrawArrowsX(X, rarrow1x, carrow1x);
        MoveArrowX(rarrow2x, carrow2x, dirarrow2x);
        DrawArrowsX(X, rarrow2x, carrow2x);
        MoveArrowX(rarrow3x, carrow3x, dirarrow3x);
        DrawArrowsX(X, rarrow3x, carrow3x);
        ErsemHeroX(X, rHerorx, cHerorx);
        if (flagEnemy1 == 0)
        {
            ErsemEnemy1(X, rEnemy1, cEnemy1);
        }

        if (cHerorx >= 50 && k % 12 == 0)
        {

```

```

        HarakEnemy2(X, i);
    }
    k++;

    ErsemEnemy2(X, rEnemy2, cEnemy2);
    if (flagHeroJumpX == 1)
    {
        if (X[rHerorx + 2][cHerorx] != ' ')
        {
            surfaceCheck = 1;
        }
        HarakHeroX(X, rHerorx, cHerorx, ch,
flagHeroJumpX, flagHeroLadder1, flagHeroLadder2, ctj, ctl1, ctl2, surfaceCheck,
flagHeroEdge, cted);
    }

    if (rHerorx == 20)
    {
        if (ctj > 6)
        {
            flagHeroJumpX = 0;
            surfaceCheck = 0;
            ctj = 0;
        }
    }

    if (flagHeroLadder1 == 1)
    {
        HarakHeroX(X, rHerorx, cHerorx, ch,
flagHeroJumpX, flagHeroLadder1, flagHeroLadder2, ctj, ctl1, ctl2, surfaceCheck,
flagHeroEdge, cted);
    }
    if (flagHeroLadder2 == 1)
    {

```

```

        HarakHeroX(X, rHerorX, cHerorX, ch,
flagHeroJumpX, flagHeroLadder1, flagHeroLadder2, ctj, ctl1, ctl2, surfaceCheck,
flagHeroEdge, cted);

    }

    if (flagHeroEdge == 1)
    {
        HarakHeroX(X, rHerorX, cHerorX, ch,
flagHeroJumpX, flagHeroLadder1, flagHeroLadder2, ctj, ctl1, ctl2, surfaceCheck,
flagHeroEdge, cted);

    }


//coins
if (rHerorX == 20 && cHerorX == 47)
{
    flagcoin1 = 1;
    X[7][77] = '1';
}

if (rHerorX == 20 && cHerorX == 49)
{
    flagcoin2 = 1;
    X[7][77] = '2';
}

if (rHerorX == 20 && cHerorX == 51)
{
    flagcoin3 = 1;
    X[7][77] = '3';
}


if (checkitemx == 0 && rHerorX == 13 && cHerorX ==
37)
{
    checkitemx++;
}

```



```
if (checkitemx > 0 && cHerox < 50)
{
    X[10][smvc - 11] = 'P';
    X[10][smvc - 10] = 'E';
    X[10][smvc - 9] = 'R';
    X[10][smvc - 8] = 'F';
    X[10][smvc - 7] = 'E';
    X[10][smvc - 6] = 'C';
    X[10][smvc - 5] = 'T';
    X[10][smvc - 4] = '!';
    X[10][smvc - 3] = ' ';
    X[10][smvc - 2] = 'i';
    X[10][smvc - 1] = 't';
    X[10][smvc] = 'e';
    X[10][smvc + 1] = 'm';
    X[10][smvc + 2] = ' ';
    X[10][smvc + 3] = 'c';
    X[10][smvc + 4] = 'o';
    X[10][smvc + 5] = 'l';
    X[10][smvc + 6] = 'l';
    X[10][smvc + 7] = 'e';
    X[10][smvc + 8] = 'c';
    X[10][smvc + 9] = 't';
    X[10][smvc + 10] = 'e';
    X[10][smvc + 11] = 'd';

}

//touch first spikes
```

```

        if (rHerox + 2 == 22 && cHerox + 1 == 14 || rHerox
+ 2 == 22 && cHerox + 1 == 15 || rHerox + 2 == 22 && cHerox + 1 == 16 || rHerox + 2
== 22 && cHerox + 1 == 17 || rHerox + 2 == 22 && cHerox + 1 == 18)
    {
        rHerox = 17;
        cHerox = 3;
        flagHeroEdge = 0;
        cted = 0;
        X[9][smvc] = 'R';
        X[9][smvc + 1] = 'E';
        X[9][smvc + 2] = 'T';
        X[9][smvc + 3] = 'R';
        X[9][smvc + 4] = 'Y';

    }

    //touch moving arrows

    if (rHerox + 2 == 22 && cHerox + 1 == 59 || rHerox
+ 2 == 22 && cHerox + 1 == 60 || rHerox + 2 == 22 && cHerox + 1 == 61 || rHerox + 2
== 22 && cHerox - 1 == 59 || rHerox + 2 == 22 && cHerox - 1 == 60 || rHerox + 2 ==
22 && cHerox - 1 == 61)
    {
        rHerox = 17;
        cHerox = 3;
        flagHeroEdge = 0;
        cted = 0;
        X[9][smvc] = 'R';
        X[9][smvc + 1] = 'E';
        X[9][smvc + 2] = 'T';
        X[9][smvc + 3] = 'R';
        X[9][smvc + 4] = 'Y';

    }

```

```
0 && cHerox + 1 == 34)

//touch enemy weapon
if (rHerox == 13 && cHerox > 29 && SmasherCheck ==

{
    rHerox = 17;
    cHerox = 3;
    flagHeroEdge = 0;
    cted = 0;
    X[9][smvc] = 'R';
    X[9][smvc + 1] = 'E';
    X[9][smvc + 2] = 'T';
    X[9][smvc + 3] = 'R';
    X[9][smvc + 4] = 'Y';

}

if (cHerox == 28 && rHerox == 13)
{
    X[13][stc] = 16;
    X[14][sbc] = 186;
}

if (cHerox == 29 && SmasherCheck == 1)
{
    X[14][stc + 3] = 16;
    X[14][sbc + 2] = 205;
    flagEnemy1 = 1;
    X[8][smvc + 2] = 'E';
    X[8][smvc + 3] = 'N';
    X[8][smvc + 4] = 'E';
    X[8][smvc + 5] = 'M';
    X[8][smvc + 6] = 'Y';
    X[8][smvc + 7] = ' ';
```

```

        X[8][smvc + 8] = 'V';
        X[8][smvc + 9] = 'A';
        X[8][smvc + 10] = 'N';
        X[8][smvc + 11] = 'Q';
        X[8][smvc + 12] = 'U';
        X[8][smvc + 13] = 'I';
        X[8][smvc + 14] = 'S';
        X[8][smvc + 15] = 'H';
        X[8][smvc + 16] = 'E';
        X[8][smvc + 17] = 'D';

    }

    if (smvc <= 78)
    {
        if (phc < cHerrox)
        {
            smvc = smvc + (cHerrox - phc);
        }
        else
        {
            smvc = smvc - (phc - cHerrox);
        }
    }

    DisplayX(X, smvc);

    phc = cHerrox;
}

ch = _getch();

HarakHeroX(X, rHerrox, cHerrox, ch, flagHeroJumpX,
flagHeroLadder1, flagHeroLadder2, ctj, ctl1, ctl2, surfaceCheck, flagHeroEdge,
cted);

```

```
if (ch == ' ')
{
    flagHeroJumpX = 1;
}
if (ch == 'w' && rHerorx == 19 && cHerorx == 25)
{
    flagHeroLadder1 = 1;
}
if (ch == 's' && rHerorx == 14 && cHerorx == 42)
{
    flagHeroLadder2 = 1;
}
if (ch == 'd' && cHerorx == 7)
{
    flagHeroEdge = 1;
}
ErsemHeroX(X, rHerorx, cHerorx);

if (ch == 'h')
{
    SmasherCheck = 1;
}

//lose or win

//case1:door closed before passing with/without item
if (X[19][76] != ' ')
{
    for (int r = 0; r < 24; r++)
```

```

{
    for (int c = 0; c < 130; c++)
    {
        X[r][c] = ' ';
    }
}

X[13][smvc - 5] = 'O';
X[13][smvc - 4] = 'P';
X[13][smvc - 3] = 'P';
X[13][smvc - 2] = 'S';
X[13][smvc - 1] = '.';
X[13][smvc] = '.';
X[13][smvc + 1] = '.';
X[14][smvc - 5] = 'D';
X[14][smvc - 4] = 'O';
X[14][smvc - 3] = 'O';
X[14][smvc - 2] = 'R';
X[15][smvc - 5] = 'B';
X[15][smvc - 4] = 'L';
X[15][smvc - 3] = 'O';
X[15][smvc - 2] = 'C';
X[15][smvc - 1] = 'K';
X[15][smvc] = 'E';
X[15][smvc + 1] = 'D';
checklost = 1;

}

//case2:passed through door with no item
else if (checkitemx == 0 && cHerox >= 75)
{

```

```
for (int r = 0; r < 24; r++)
{
    for (int c = 0; c < 130; c++)
    {
        X[r][c] = ' ';
    }
}
```

```
X[13][smvc - 6] = 'N';
X[13][smvc - 5] = 'O';
X[13][smvc - 4] = ' ';
X[13][smvc - 3] = 'I';
X[13][smvc - 2] = 'T';
X[13][smvc - 1] = 'E';
X[13][smvc] = 'M';
X[13][smvc + 1] = ' ';
X[13][smvc + 2] = ':';
X[13][smvc + 3] = '(';
X[15][smvc - 10] = 'I';
X[15][smvc - 9] = 'T';
X[15][smvc - 8] = ' ';
X[15][smvc - 7] = 'I';
X[15][smvc - 6] = 'S';
X[15][smvc - 5] = ' ';
X[15][smvc - 4] = 'A';
X[15][smvc - 3] = ' ';
X[15][smvc - 2] = 'M';
X[15][smvc - 1] = 'U';
X[15][smvc] = 'S';
X[15][smvc + 1] = 'T';
X[15][smvc + 2] = '.';
X[15][smvc + 3] = '.';
```

```

        X[15][smvc + 4] = '.';
        checklost = 1;

    }

    else if (checkitemx == 1 && cHerox >= 75)
    {
        for (int r = 0; r < 24; r++)
        {
            for (int c = 0; c < 130; c++)
            {
                X[r][c] = ' ';
            }
        }

        X[16][smvc - 6] = 'Y';
        X[16][smvc - 5] = 'A';
        X[16][smvc - 4] = 'Y';
        X[16][smvc - 3] = ' ';
        X[16][smvc - 2] = 'Y';
        X[16][smvc - 1] = 'O';
        X[16][smvc] = 'U';
        X[16][smvc + 1] = ' ';
        X[16][smvc + 2] = 'W';
        X[16][smvc + 3] = 'O';
        X[16][smvc + 4] = 'N';
        X[16][smvc + 5] = '!';
        X[16][smvc + 6] = '!';
        checkwin = 1;
    }

    if (checkwin == 1 || checklost == 1)
    {
        DisplayX(X, smvc);
    }

```



```
                                break;
                                }
                                }

}
```

LEVEL TWO

```
#include <iostream>
#include <conio.h>
using namespace std;
```

```
void Background2(char y[][160])
{
    for (int r = 0; r < 19; r++)
    {
        for (int c = 0; c < 160; c++)
        {
            y[r][c] = ' ';
        }
    }

    for (int r = 20; r < 24; r++)
    {
        for (int c = 0; c < 160; c++)
        {
```

```
        y[r][c] = ' ';
    }
}

for (int c = 0; c < 65; c++)
{
    y[19][c] = ' ';
}
for (int c = 80; c < 160; c++)
{
    y[19][c] = ' ';
}

for (int r = 0; r < 24; r++)
{
    y[r][0] = 179;
    y[r][159] = 179;
}

//starting blocks
for (int c = 0; c < 160; c++)
{
    y[23][c] = 178;
}

for (int r = 22; r < 24; r++)
{
    for (int c = 5; c < 10; c++)
    {
        y[r][c] = 178;
    }
}

for (int r = 21; r < 24; r++)
{
    for (int c = 9; c < 15; c++)
    {
        y[r][c] = 178;
    }
}

//sky
for (int r = 0; r < 3; r++)
{
    for (int c = 0; c < 160; c++)
    {
```

```
        y[r][c] = 178;
    }
}
for (int r = 0; r < 6; r++)
{
    for (int c = 16; c < 21; c++)
    {
        y[r][c] = 178;
    }
}
```

```
for (int r = 0; r < 16; r++)
{
    for (int c = 45; c < 50; c++)
    {
        y[r][c] = 178;
    }
}
```

```
//bullets 1
y[6][16] = 186;
y[7][16] = 200;
y[7][17] = 205;
y[7][18] = 31;
y[7][19] = 205;
y[6][20] = 186;
y[7][20] = 188;
```

```
//bullets 2
y[16][45] = 186;
y[17][45] = 200;
y[17][46] = 205;
y[17][47] = 31;
y[17][48] = 205;
y[16][49] = 186;
y[17][49] = 188;
```

```
//tall block in middle
for (int r = 22; r > 9; r--)
{
    for (int c = 29; c < 34; c++)
    {
        y[r][c] = 178;
    }
}
```

```
//coins platforms
//top
```

```
for (int c = 50; c < 84; c++)
{
    y[6][c] = 220;
}
//ladder 1
for (int r = 7; r < 11; r++)
{
    y[r][67] = 195;
    y[r][68] = '-';
    y[r][69] = 180;
}
//bottom
for (int c = 50; c < 84; c++)
{
    y[11][c] = 220;
}
for (int r = 3; r < 12; r++)
{
    y[r][83] = 219;
}
//ladder 2
for (int r = 12; r < 18; r++)
{
    y[r][78] = 195;
    y[r][79] = '-';
    y[r][80] = 180;
}
```

```
//first platforms
//no.1
y[21][56] = 220;
y[21][57] = 220;
y[21][58] = 220;
y[21][59] = 220;
y[21][60] = 220;
y[21][61] = 201;
y[21][62] = 254;
y[21][63] = 187;
```

```
//no.2 (before enemy)
y[19][65] = 220;
y[19][66] = 220;
y[19][67] = 220;
y[19][68] = 220;
```

```
//no.3
y[17][77] = 220;
```

```
y[17][78] = 220;  
y[17][79] = 220;  
y[17][80] = 220;  
y[17][81] = 220;  
y[17][82] = 220;  
y[17][83] = 220;  
y[17][84] = 220;  
y[17][85] = 220;  
y[17][86] = 220;  
y[17][87] = 220;
```

```
//no.4  
y[15][90] = 220;  
y[15][91] = 220;  
y[15][92] = 220;  
y[15][93] = 220;  
y[15][94] = 220;  
y[15][95] = 220;
```

```
//no.5  
y[13][98] = 220;  
y[13][99] = 220;  
y[13][100] = 220;  
y[13][101] = 220;  
y[13][102] = 220;  
y[13][103] = 220;
```

```
//rope top-base  
y[3][106] = 195;  
for (int c = 107; c < 136; c++)  
{  
    y[3][c] = 194;  
}  
y[3][136] = 180;
```

```
//spikes  
for (int c = 103; c < 136; c++)  
{  
    y[23][c] = 30;  
}
```

```
//second platforms  
//no.1  
y[13][130] = 220;  
y[13][131] = 220;
```

```

y[13][132] = 220;
y[13][133] = 220;
y[13][134] = 220;
y[13][135] = 220;
y[13][136] = 220;
y[13][137] = 220;

```

```

//no.2
y[15][138] = 220;
y[15][139] = 220;
y[15][140] = 220;
y[15][141] = 220;
y[15][142] = 220;
y[15][143] = 220;
y[15][144] = 220;
y[15][145] = 220;

```

```

//outside border of elevator
y[10][145] = '.';
for (int c = 146; c < 151; c++)
{
    y[10][c] = '.';
}
y[10][151] = '.';

```

```

for (int r = 11; r < 23; r++)
{
    y[r][151] = ':';
}
for (int r = 11; r < 23; r++)
{
    y[r][145] = ':';
}
}

```

```

void endDoor(char y[][160], int& openDoor)
{
    if (openDoor == 0)
    {
        for (int r = 17; r < 23; r++)
        {
            y[r][155] = 186;
        }
        y[17][155] = 201;
        for (int c = 156; c < 159; c++)
        {
            y[17][c] = 205;
        }
    }
}

```

```
    }  
  }  
  else  
  {  
  
    for (int r = 17; r < 19; r++)  
    {  
      y[r][155] = 186;  
    }  
    y[17][155] = 201;  
    for (int c = 156; c < 159; c++)  
    {  
      y[17][c] = 205;  
    }  
  }  
}
```

```
void jetback(char y[][160], int flagJetBack)  
{  
  if (flagJetBack == 0)  
  {  
    y[19][12] = '[';  
    y[19][13] = ' ';  
    y[19][11] = 204;  
    y[19][14] = 185;  
  }  
  else  
  {  
    y[19][12] = ' ';  
    y[19][13] = ' ';  
    y[19][11] = ' ';  
    y[19][14] = ' ';  
  }  
}
```

```
void enemyplatform(char y[][160], int& flagTouch, int cenemy3, int cHero)  
{  
  if (flagTouch == 1)  
  {  
    y[19][cenemy3] = ' ';  
  }  
}
```

```
//coins
```

```
void coinsY(char y[][160], int& flagcoin1, int& flagcoin2, int& flagcoin3, int& flagcoin4, int& flagcoin5,
int& flagcoin6, int& flagcoin7, int& flagcoin8, int& flagcoin9, int& flagcoin10, int& ctcoins)
{
    if (flagcoin1 == 1)
    {
        y[14][25] = ' ';

    }
    else
    {
        y[14][25] = 233;
    }

    if (flagcoin2 == 1)
    {
        y[11][25] = ' ';
    }
    else
    {
        y[11][25] = 233;
    }

    if (flagcoin3 == 1)
    {
        y[16][38] = ' ';

    }
    else
    {
        y[16][38] = 233;
    }

    if (flagcoin3 == 1)
    {
        y[20][38] = ' ';

    }
    else
    {
        y[20][38] = 233;
    }

    if (flagcoin5 == 1)
    {
        y[5][55] = ' ';

    }
    else
```



```
{
    y[5][55] = 233;
}

if (flagcoin6 == 1)
{
    y[5][57] = ' ';
}
else
{
    y[5][57] = 233;
}

if (flagcoin7 == 1)
{
    y[5][59] = ' ';
}
else
{
    y[5][59] = 233;
}

if (flagcoin8 == 1)
{
    y[22][139] = ' ';
}
else
{
    y[22][139] = 233;
}

if (flagcoin9 == 1)
{
    y[22][140] = ' ';
}
else
{
    y[22][140] = 233;
}

if (flagcoin10 == 1)
{
    y[22][141] = ' ';
}
else
{
    y[22][141] = 233;
}

//count coins
```

```
if (ctcoins == 1)
{
    y[4][150] = '1';
}
if (ctcoins == 2)
{
    y[4][150] = '2';
}
if (ctcoins == 3)
{
    y[4][150] = '3';
}
if (ctcoins == 4)
{
    y[4][150] = '4';
}
if (ctcoins == 5)
{
    y[4][150] = '5';
}
if (ctcoins == 6)
{
    y[4][150] = '6';
}
if (ctcoins == 7)
{
    y[4][150] = '7';
}
if (ctcoins == 8)
{
    y[4][150] = '8';
}
if (ctcoins == 9)
{
    y[4][150] = '9';
}
if (ctcoins == 10)
{
    y[4][150] = '1';
    y[4][151] = '0';
}
```

```
y[4][142] = 'c';
y[4][143] = 'o';
y[4][144] = 'i';
y[4][145] = 'n';
y[4][146] = 's';
y[4][147] = ':';
```

```

y[4][148] = ' ';
y[6][142] = 't';
y[6][143] = 'a';
y[6][144] = 'r';
y[6][145] = 'g';
y[6][146] = 'e';
y[6][147] = 't';
y[6][148] = ' ';
y[6][149] = 'i';
y[6][150] = 's';

y[6][152] = '1';
y[6][153] = '0';
}

void DrawElevator(char Y[][160], int relevator, int prevre, int flagElevator, int openDoor, int& celevator)
{
    Y[relevator][celevator - 4] = 196;
    for (int r = relevator + 1; r < relevator + 4; r++)
    {
        //Y[r][146] = '|';
        Y[r][celevator] = '|';
    }
    Y[relevator][celevator] = 191;
    for (int c1 = 147; c1 < 150; c1++)
    {
        Y[relevator][c1] = 196;
    }
    Y[relevator + 4][celevator - 4] = 196;
    for (int c1 = 147; c1 < 150; c1++)
    {
        Y[relevator + 4][c1] = 196;
    }
    Y[relevator + 4][celevator] = 217;
}

void MoveElevator(int& r, int& c, int& dielevator, int& rHero, int& flagElevator)
{
    if (dielevator == 1)
    {
        r++;
    }
    if (flagElevator == 1 && dielevator == 1)
    {
        rHero++;
    }
}

```

```
    if (dielevator == -1)
    {
        r--;
    }

    if (flagElevator == 1 && dielevator == -1)
    {
        rHero--;
    }

    if (r == 18)
    {
        dielevator = -1;
    }
    if (r == 11)
    {
        dielevator = 1;
    }
}

void ErsemHeroY(char Y[][160], int rHero, int cHero, int flagJetBack, int flagHoldRope, int flagMoveRope)
{
    if (flagJetBack == 0 || flagJetBack == 2)
    {
        Y[rHero][cHero] = 1;
        Y[rHero + 1][cHero] = 30;
        Y[rHero + 1][cHero - 1] = '/';
        Y[rHero + 1][cHero + 1] = '\\';
        Y[rHero + 2][cHero - 1] = '/';
        Y[rHero + 2][cHero + 1] = '\\';
    }

    if (flagJetBack == 1)
    {
        Y[rHero][cHero] = 1;
        Y[rHero + 1][cHero] = 30;
        Y[rHero + 1][cHero - 1] = '/';
        Y[rHero + 1][cHero - 2] = 204;
        Y[rHero + 1][cHero + 1] = '\\';
        Y[rHero + 1][cHero + 2] = 185;
        Y[rHero + 2][cHero - 1] = '/';
        Y[rHero + 2][cHero + 1] = '\\';
    }

    if (flagHoldRope == 1 || flagMoveRope == 1)
    {

```

```

        Y[rHero][cHero] = 1;
        Y[rHero + 1][cHero] = 30;
        Y[rHero + 1][cHero - 1] = '/';
        Y[rHero][cHero + 1] = '//';
        Y[rHero + 1][cHero + 1] = ' ';
        Y[rHero + 2][cHero - 1] = '/';
        Y[rHero + 2][cHero + 1] = '\\';
    }

}

void HarakHeroY(char Y[][160], int& rHero, int& cHero, char mv, int& flagJetpack, int& flagLadder1up,
int& ctl1up, int& flagLadder1down, int& ctl1down, int& flagLadder2up, int& ctl2up, int&
flagLadder2down, int& ctl2down, int& flagHoldRope, int& cthr, int& flagHeroMoveRope, int& ctmr, int&
surfacecheck1, int& flagjump, int& ctj, int& surfacecheck, int& flagfall, int& flagElevator, int& dielevator)
{
    if (mv == 'w' && Y[rHero - 1][cHero] == ' ' && flagLadder1up == 0 && flagLadder2up == 0 &&
flagJetpack == 0)
    {
        rHero--;

    }

    if (mv == 'w' && Y[rHero - 1][cHero] == ' ' && flagLadder1up == 0 && flagLadder2up == 0 &&
flagJetpack == 1 || mv == 'w' && Y[rHero - 1][cHero] == -23 && flagLadder1up == 0 && flagLadder2up ==
0 && flagJetpack == 1)
    {
        rHero--;

    }

    if (mv == 's' && Y[rHero + 3][cHero] == ' ' && flagJetpack == 0)
    {
        if (rHero < 20)
        {
            rHero++;
        }

    }

    if (mv == 's' && Y[rHero + 3][cHero] == ' ' && flagJetpack == 1 || mv == 's' && Y[rHero + 3][cHero] == -
23 && flagJetpack == 1)
    {
        if (Y[rHero + 4][cHero] == ' ' || Y[rHero + 4][cHero] == -23)
        {
            rHero++;
        }

    }

```

```

    }

    if (mv == 'a' && Y[rHero][cHero - 1] == ' ' && Y[rHero + 1][cHero - 2] == ' ' && Y[rHero + 2][cHero - 2] ==
    ' ' || mv == 'a' && cHero == 15 || mv == 'a' && cHero == 14 || mv == 'a' && cHero == 13 || mv == 'a' &&
    cHero == 12 || mv == 'a' && cHero == 71 || mv == 'a' && cHero == 70 || mv == 'a' && cHero == 69 || mv
    == 'a' && cHero == 68 || mv == 'a' && cHero == 79 || mv == 'a' && cHero == 80 || mv == 'a' && cHero
    == 81 || mv == 'a' && cHero == 82 || mv == 'a' && cHero == 61 || mv == 'a' && cHero == 59 || mv == 'a'
    && cHero == 57 || mv == 'a' && cHero >= 143 && cHero <= 153) {

        if (cHero > 1) {
            cHero--;

        }
    }

    if (mv == 'a' && Y[rHero][cHero - 2] == ' ' && Y[rHero + 1][cHero - 3] == ' ' && Y[rHero + 2][cHero - 3] ==
    ' ' && flagJetpack == 1 || mv == 'a' && flagJetpack == 1 && cHero == 28 || mv == 'a' && flagJetpack == 1
    && cHero == 41 || mv == 'a' && rHero == 20 && cHero == 143 || mv == 'a' && rHero == 20 && cHero ==
    142 || mv == 'a' && rHero == 20 && cHero == 141)
    {
        if (cHero > 1)
        {
            cHero--;
        }
    }

    if (mv == 'd' && Y[rHero][cHero + 1] == ' ' && Y[rHero + 1][cHero + 2] == ' ' && Y[rHero + 2][cHero + 2]
    == ' ' || mv == 'd' && cHero == 9 || mv == 'd' && cHero == 10 || mv == 'd' && cHero == 11 || mv == 'd'
    && cHero == 12 || mv == 'd' && cHero == 76 || mv == 'd' && cHero == 77 || mv == 'd' && cHero == 78
    || mv == 'd' && cHero == 79 || mv == 'd' && cHero == 80 || mv == 'd' && cHero == 65 || mv == 'd' &&
    cHero == 66 || mv == 'd' && cHero == 67 || mv == 'd' && cHero == 68 || mv == 'd' && cHero == 55 ||
    mv == 'd' && cHero == 57 || mv == 'd' && cHero == 59 || mv == 'd' && cHero >= 143 && cHero < 153)
    {
        if (flagElevator == 0)
        {
            if (cHero < 160)
            {
                cHero++;

            }
        }
        else
        {
            if (cHero >= 146 && cHero <= 148)
            {
                cHero++;
            }
        }
    }

```

```
    }

    }

}
if (mv == 'd' && Y[rHero][cHero + 2] == ' ' && Y[rHero + 1][cHero + 3] == ' ' && Y[rHero + 2][cHero + 3]
== ' ' && flagJetpack == 1 || mv == 'd' && flagJetpack == 1 && cHero == 22 || mv == 'd' && flagJetpack
== 1 && cHero == 35)
{
    if (cHero < 160)
    {
        cHero++;
    }
}

if (flagElevator == 1)
{
    if (dielevator == 1)
    {
        rHero++;
    }
    if (dielevator == -1)
    {
        rHero--;
    }
}

if (flagLadder1up == 1)
{
    if (ctl1up == 0)
    {
        rHero--;
    }
    if (ctl1up == 1)
    {
        rHero--;
    }
    if (ctl1up == 2)
    {
        rHero--;
    }
    if (ctl1up == 4)
    {
        rHero--;
    }
    if (ctl1up == 5)
```

```
{
    rHero--;
    flagLadder1up = 0;
}
ctl1up++;
if (ctl1up >= 6)
{
    ctl1up = 0;
}
}

if (flagLadder1down == 1)
{
    if (ctl1down == 0)
    {
        rHero++;
    }
    if (ctl1down == 1)
    {
        rHero++;
    }
    if (ctl1down == 2)
    {
        rHero++;
    }
    if (ctl1down == 4)
    {
        rHero++;
    }
    if (ctl1down == 5)
    {
        rHero++;
        flagLadder1down = 0;
    }
    ctl1down++;
    if (ctl1down >= 6)
    {
        ctl1down = 0;
    }
}

if (flagLadder2up == 1)
{
    if (ctl2up == 0)
    {
        rHero--;
    }
}
```



```
    if (ctl2up == 1)
    {
        rHero--;
    }
    if (ctl2up == 2)
    {
        rHero--;

    }
    if (ctl2up == 3)
    {
        rHero--;

    }
    if (ctl2up == 4)
    {
        rHero--;

    }
    if (ctl2up == 5)
    {
        rHero--;
        flagLadder2up = 0;
    }
    ctl2up++;
    if (ctl2up >= 6)
    {
        ctl2up = 0;
    }
}

if (flagLadder2down == 1)
{
    if (ctl2down == 0)
    {
        rHero++;
    }
    if (ctl2down == 1)
    {
        rHero++;
    }
    if (ctl2down == 2)
    {
        rHero++;

    }
    if (ctl2down == 3)
    {
```

```
        rHero++;

    }
    if (ctl2down == 4)
    {
        rHero++;

    }
    if (ctl2down == 5)
    {
        rHero++;
        flagLadder2down = 0;

    }
    ctl2down++;
    if (ctl2down >= 6)
    {
        ctl2down = 0;
    }
}

if (flagHoldRope == 1)
{
    if (cthr == 0)
    {
        rHero--;

    }
    if (cthr == 1)
    {
        cHero++;
        flagHeroMoveRope = 1;
    }
    cthr++;
}
if (flagHeroMoveRope == 1)
{
    if (ctmr == 0)
    {
        cHero++;

    }
    ctmr++;
}

if (flagjump == 1)
{
```

```
    if (ctj == 0)
    {
        cHero++;
        rHero--;
    }
    if (ctj == 1)
    {
        cHero++;
        rHero--;
    }
    if (ctj == 2)
    {
        cHero++;
    }
    if (ctj == 3)
    {
        cHero++;
    }
    if (ctj == 4 && Y[rHero + 3][cHero + 2] == ' ')
    {
        cHero++;
        rHero++;
    }
    if (ctj == 5 && Y[rHero + 3][cHero + 2] == ' ')
    {
        rHero++;
    }
    ctj++;
    if (ctj == 6)
    {
        ctj = -1;
        flagjump = 0;
    }
}
if (Y[rHero + 3][cHero - 1] == ' ' && Y[rHero + 3][cHero + 1] == ' ' && flagjump == 0 && flagJetpack == 0
&& flagHeroMoveRope == 0 && flagElevator == 0)
{
    flagfall = 1;
}
else
{
    flagfall = 0;
}
if (flagfall == 1 && flagHeroMoveRope == 0)
{
    if (rHero < 20)
    {
```

```
        rHero++;
    }
}

}
```

```
void MoveRope(int& cmvr, int& prevcr, int& flagMoveRope, int& cHero, int& flagHeroMoveRope, int& flagHoldRope)
```

```
{
    prevcr = cmvr;
    if (cmvr < 136 && flagMoveRope == 1)
    {
        cmvr++;
        cHero++;
    }
    else
    {
        flagMoveRope = 0;
        flagHeroMoveRope = 0;
        flagHoldRope = 0;
    }
}
```

```
void DrawRope(char Y[][160], int cmvr, int prevcr, int flagMoveRope)
```

```
{
    for (int r = 4; r < 10; r += 2)
    {
        Y[r][cmvr] = 186;

    }
    for (int r = 5; r < 11; r += 2)
    {
        Y[r][cmvr] = 'O';

    }
    if (flagMoveRope == 1)
    {
        for (int r = 4; r < 11; r++)
        {
            Y[r][prevcr] = ' ';

        }
    }
}
```

```
void DrawArrows(char X[][160], int r, int c)
```

```
{  
    X[r + 1][c] = '|';  
    X[r + 2][c] = '1';  
}
```

```
void MoveArrow(int& r, int& c, int& dirarrow)  
{  
    if (dirarrow == 1)  
    {  
        r++;  
    }  
    if (dirarrow == -1)  
    {  
        r--;  
    }  
    if (r == 2)  
    {  
        dirarrow = -1;  
    }  
    if (r == 1)  
    {  
        dirarrow = 1;  
    }  
}
```

```
void drawlaser(char X[][160], int r, int c)  
{  
    X[r + 1][c] = 179;  
    X[r + 2][c] = 179;  
}
```

```
void movelaser(int& r, int& c, int& dilaser)  
{  
    if (dilaser == 1)  
    {  
        r++;  
    }  
    if (dilaser == -1)  
    {  
        r--;  
    }  
    if (r == 2)  
    {  
        dilaser = -1;  
    }  
    if (r == 1)
```

```
{
    dilaser = 1;
}
```

```
void ErsemEnemy3(char Y[][160], int renemy3, int cenemy3)
{
    Y[renemy3][cenemy3] = 254;
    Y[renemy3 + 1][cenemy3] = 186;
}
```

```
void HarakEnemy3(char Y[][160], int& renemy3, int& cenemy3, int& direnemy, int& flagTouch)
{
    if (cenemy3 < 79)
    {
        if (direnemy == 1)
        {
            renemy3--;
        }
        if (direnemy == -1)
        {
            renemy3++;
        }
        if (renemy3 == 19)
        {
            direnemy = -1;
        }
        if (renemy3 == 20)
        {
            direnemy = 1;
        }

        cenemy3++;
    }
    if (renemy3 == 19)
    {
        flagTouch = 1;
    }
}
```

```
void DisplayY(char Y[][160])
{
    system("cls");
    for (int r = 0; r < 24; r++)
    {
        for (int c = 0; c < 160; c++)
        {
```

```

        cout << Y[r][c];
    }
}
}

```

```

int main()
{
    int rHero = 20, cHero = 2;
    int flagJetpack = 0;
    int rarrow1 = 1, carrow1 = 30, dirarrow1 = 1;
    int rarrow2 = 1, carrow2 = 31, dirarrow2 = 1;
    int rarrow3 = 1, carrow3 = 32, dirarrow3 = 1;
    int rlaser1 = 7, claser1 = 18, dilaser1 = 1;
    int relelevator = 11, celelevator = 150, dielevator = 1, slower = 0;
    int flagHoldRope = 0, cthr = 0, flagMoveRope = 0, flagHeroMoveRope = 0, ctmr = 0;
    int cmvr = 107, prevcr = 0, fix = 1;;
    int renemy3 = 20, cenemy3 = 68, direnemy = 1;
    int flagButton = 0, k = 0, z = 0, flagTouch = 0;
    int flagLadder1up = 0, ctl1up = 0, flagLadder1down = 0, ctl1down = 0, flagLadder2up = 0, ctl2up = 0,
    flagLadder2down = 0, ctl2down = 0;
    int flagcoin1 = 0, flagcoin2 = 0, flagcoin3 = 0, flagcoin4 = 0, flagcoin5 = 0, flagcoin6 = 0, flagcoin7 = 0,
    flagcoin8 = 0, flagcoin9 = 0, flagcoin10 = 0, ctcoins = 0, check1 = 0, check2 = 0, check3 = 0, check4 = 0,
    check5 = 0, check6 = 0, check7 = 0, check8 = 0, check9 = 0, check10 = 0;;
    int flagElevator = 0, ctel = 0, openDoor = 0, prevre = 0, f = 0;
    int flagjump = 0, surfacecheck = 0, surfacecheck1 = 0, ctj = 0, flagfall = 0;
    char ch;
    char y[24][160];

    //enemy 3 platform continuation
    for (int c = 69; c < 80; c++)
    {
        y[19][c] = 220;
    }

    for (;;)
    {
        for (; !_kbhit();)
        {
            Background2(y);
            jetback(y, flagJetpack);
            enemyplatform(y, flagTouch, cenemy3, cHero);
            coinsY(y, flagcoin1, flagcoin2, flagcoin3, flagcoin4, flagcoin5, flagcoin6, flagcoin7, flagcoin8,
            flagcoin9, flagcoin10, ctcoins);
            endDoor(y, openDoor);
            if (flagjump == 1)
            {

```

```

        HarakHeroY(y, rHero, cHero, ch, flagJetpack, flagLadder1up, ctl1up, flagLadder1down,
        ctl1down, flagLadder2up, ctl2up, flagLadder2down, ctl2down, flagHoldRope, cthr, flagHeroMoveRope,
        ctmr, surfacecheck1, flagjump, ctj, surfacecheck, flagfall, flagElevator, dielevator);
    }
    if (flagfall == 1)
    {
        HarakHeroY(y, rHero, cHero, ch, flagJetpack, flagLadder1up, ctl1up, flagLadder1down,
        ctl1down, flagLadder2up, ctl2up, flagLadder2down, ctl2down, flagHoldRope, cthr, flagHeroMoveRope,
        ctmr, surfacecheck1, flagjump, ctj, surfacecheck, flagfall, flagElevator, dielevator);

    }

    if (flagButton == 0)
    {
        //hole
        for (int c = 69; c < 80; c++)
        {
            y[22][c] = '_';
            y[23][c] = '|';
        }

        if (z % 10 == 0 && cHero >= 51)
        {
            HarakEnemy3(y, renemy3, cenemy3, direnemy, flagTouch);
        }

        ErsemEnemy3(y, renemy3, cenemy3);

    }
    else
    {
        if (k == 0)
        {
            y[22][70] = '|';
            y[21][70] = '|';
            y[20][70] = '|';
            y[22][78] = '|';
            y[21][78] = '|';
            y[20][78] = '|';
        }
        else
        {
            for (int c = 69; c < 80; c++)
            {
                y[22][c] = '_';
                y[23][c] = '|';
            }
        }
    }

```



```

    }
    renemy3 = 23;
    ErsemEnemy3(y, renemy3, cenemy3);
    k++;
}
z++;
MoveArrow(rarrow1, carrow1, dirarrow1);
DrawArrows(y, rarrow1, carrow1);
MoveArrow(rarrow2, carrow2, dirarrow2);
DrawArrows(y, rarrow2, carrow2);
MoveArrow(rarrow3, carrow3, dirarrow3);
DrawArrows(y, rarrow3, carrow3);
DrawElevator(y, relevator, prevre, flagElevator, openDoor, celevator);
ErsemHeroY(y, rHero, cHero, flagJetpack, flagHoldRope, flagMoveRope);
drawlaser(y, rlaser1, claser1);
movelaser(rlaser1, claser1, dilaser1);

if (fix == 1 && flagElevator == 1)
{
    rHero--;
    fix++;
}

if (slower % 5 == 0)
{
    MoveElevator(relevator, celevator, dielevator, rHero, flagElevator);
}

slower++;

DrawRope(y, cmvr, prevcr, flagMoveRope);

//touch moving arrows
if (rHero == 4 && cHero == 30 || rHero == 4 && cHero == 31 || rHero == 4 && cHero == 32 ||
rHero == 5 && cHero == 30 || rHero == 5 && cHero == 31 || rHero == 5 && cHero == 32)
{
    rHero = 20;
    cHero = 3;
    flagJetpack = 0;
}

if (flagLadder1up == 1)
{
    HarakHeroY(y, rHero, cHero, ch, flagJetpack, flagLadder1up, ctl1up, flagLadder1down,
ctl1down, flagLadder2up, ctl2up, flagLadder2down, ctl2down, flagHoldRope, cthr, flagHeroMoveRope,
ctmr, surfacecheck1, flagjump, ctj, surfacecheck, flagfall, flagElevator, dielevator);

```

```
    }

    if (flagLadder1down == 1)
    {
        HarakHeroY(y, rHero, cHero, ch, flagJetpack, flagLadder1up, ctl1up, flagLadder1down,
        ctl1down, flagLadder2up, ctl2up, flagLadder2down, ctl2down, flagHoldRope, cthr, flagHeroMoveRope,
        ctmr, surfacecheck1, flagjump, ctj, surfacecheck, flagfall, flagElevator, dielevator);
    }

    if (flagLadder2up == 1)
    {
        HarakHeroY(y, rHero, cHero, ch, flagJetpack, flagLadder1up, ctl1up, flagLadder1down,
        ctl1down, flagLadder2up, ctl2up, flagLadder2down, ctl2down, flagHoldRope, cthr, flagHeroMoveRope,
        ctmr, surfacecheck1, flagjump, ctj, surfacecheck, flagfall, flagElevator, dielevator);
    }

    if (flagLadder2down == 1)
    {
        HarakHeroY(y, rHero, cHero, ch, flagJetpack, flagLadder1up, ctl1up, flagLadder1down,
        ctl1down, flagLadder2up, ctl2up, flagLadder2down, ctl2down, flagHoldRope, cthr, flagHeroMoveRope,
        ctmr, surfacecheck1, flagjump, ctj, surfacecheck, flagfall, flagElevator, dielevator);
    }

    //coins
    if (rHero == 13 && cHero == 25)
    {
        flagcoin1 = 1;
        if (check1 == 0)
        {
            ctcoins++;
            check1 = 1;
        }
    }

    if (rHero == 10 && cHero == 25)
    {
        flagcoin2 = 1;
        if (check2 == 0)
        {
            ctcoins++;
            check2 = 1;
        }
    }

    if (rHero == 15 && cHero == 38)
    {
        flagcoin3 = 1;
        if (check3 == 0)
```

```
        {
            ctcoins++;
            check3 = 1;
        }
    }

    if (rHero == 19 && cHero == 38)
    {
        flagcoin4 = 1;
        if (check4 == 0)
        {
            ctcoins++;
            check4 = 1;
        }
    }

    if (rHero == 3 && cHero == 59)
    {
        flagcoin5 = 1;
        if (check5 == 0)
        {
            ctcoins++;
            check5 = 1;
        }
    }

    if (rHero == 3 && cHero == 57)
    {
        flagcoin6 = 1;
        if (check6 == 0)
        {
            ctcoins++;
            check6 = 1;
        }
    }

    if (rHero == 3 && cHero == 55)
    {
        flagcoin7 = 1;
        if (check7 == 0)
        {
            ctcoins++;
            check7 = 1;
        }
    }

    if (rHero == 20 && cHero == 139)
    {
        flagcoin8 = 1;
        if (check8 == 0)
```

```

        {
            ctcoins++;
            check8 = 1;
        }
    }

    if (rHero == 20 && cHero == 140)
    {
        flagcoin9 = 1;
        if (check9 == 0)
        {
            ctcoins++;
            check9 = 1;
        }
    }

    if (rHero == 20 && cHero == 141)
    {
        flagcoin10 = 1;
        if (check10 == 0)
        {
            ctcoins++;
            check10 = 1;
        }
    }

    if (flagHoldRope == 1)
    {
        HarakHeroY(y, rHero, cHero, ch, flagJetpack, flagLadder1up, ctl1up, flagLadder1down,
        ctl1down, flagLadder2up, ctl2up, flagLadder2down, ctl2down, flagHoldRope, cthr, flagHeroMoveRope,
        ctmr, surfacecheck1, flagjump, ctj, surfacecheck, flagfall, flagElevator, dielevator);
    }
    if (flagMoveRope == 1)
    {
        HarakHeroY(y, rHero, cHero, ch, flagJetpack, flagLadder1up, ctl1up, flagLadder1down,
        ctl1down, flagLadder2up, ctl2up, flagLadder2down, ctl2down, flagHoldRope, cthr, flagHeroMoveRope,
        ctmr, surfacecheck1, flagjump, ctj, surfacecheck, flagfall, flagElevator, dielevator);
        MoveRope(cmvr, prevcr, flagMoveRope, cHero, flagHeroMoveRope, flagMoveRope);
    }

    //return to platform after rope
    if (cHero == 133 && rHero == 9)
    {
        rHero++;
    }

    //raise hand to hold rope
    if (cHero == 103 && rHero == 9)

```

```

    {
        y[rHero][cHero + 1] = '/';
        y[rHero + 1][cHero + 1] = ' ';
    }
    //get the hand back
    if ((cHero == 134 && rHero == 10) || (cHero == 133 && rHero == 10))
    {
        flagHoldRope = 0;
    }

    //the big spike
    if (rHero == 20 && cHero >= 103 && cHero < 135)
    {
        rHero = 20;
        cHero = 2;
    }

    //make the gravity work after using the jetpack
    if (rHero == 20 && cHero == 51)
    {
        flagJetpack = 0;
    }

    //laser
    if (rlaser1 == 21)
    {
        rlaser1 = 7;
    }

    //make the hero die from the laser
    if (rHero == rlaser1 && cHero == 18 || rHero == rlaser1 && cHero == 17 || rHero == rlaser1 &&
cHero == 19)
    {
        rHero = 20;
        cHero = 2;
        flagJetpack = 0;
    }

    if (cHero == 146 && y[rHero + 3][cHero] == -60 || cHero == 147 && y[rHero + 3][cHero] == -60 ||
cHero == 148 && y[rHero + 3][cHero] == -60 || cHero == 149 && y[rHero + 3][cHero] == -60)
    {
        flagElevator = 1;
    }

    cout << "chero:" << cHero << endl << "rhero: " << rHero << endl << "flag elevator: " <<
flagElevator;
    DisplayY(y);

```

```
    }

    ch = _getch();
    HarakHeroY(y, rHero, cHero, ch, flagJetpack, flagLadder1up, ctl1up, flagLadder1down, ctl1down,
flagLadder2up, ctl2up, flagLadder2down, ctl2down, flagHoldRope, cthr, flagHeroMoveRope, ctmr,
surfacecheck1, flagjump, ctj, surfacecheck, flagfall, flagElevator, dielevator);

    if (ch == ' ')
    {
        flagjump = 1;
    }
    if (ch == 'd' && cHero == 12 && rHero == 18)
    {
        flagJetpack = 1;
    }

    if (ch == 'd' && cHero == 51)
    {
        flagJetpack = 2;
        rHero = 20;
    }

    if (ch == 'w' && cHero == 68 && rHero == 8)
    {
        flagLadder1up = 1;
    }

    if (ch == 's' && cHero == 68 && rHero == 3)
    {
        flagLadder1down = 1;
    }

    if (ch == 'w' && cHero == 79 && rHero == 14)
    {
        flagLadder2up = 1;
    }

    if (ch == 's' && cHero == 79 && rHero == 8)
    {
        flagLadder2down = 1;
    }

    if (ch == 'r' && cHero == 102 && rHero == 10)
    {
        flagHoldRope = 1;
    }
```

```
    if (ch == 'd' && cHero == 104 && rHero == 9)
    {
        flagMoveRope = 1;
    }

    if (ch == 'o' && cHero == 153 && rHero == 20)
    {
        openDoor = 1;
    }

    if (cHero == 146 && y[rHero + 3][cHero] == -60 || cHero == 147 && y[rHero + 3][cHero] == -60 ||
    cHero == 148 && y[rHero + 3][cHero] == -60 || cHero == 149 && y[rHero + 3][cHero] == -60 || cHero ==
    150 && y[rHero + 3][cHero] == -60)
    {
        flagElevator = 1;
    }

    if (ch == 'a' && cHero == 145 || ch == 'a' && cHero == 146)
    {
        flagElevator = 0;
    }

    //open space under enemy
    if (cHero == 62 && rHero == 18)
    {
        flagButton = 1;
    }

    ErsemHeroY(y, rHero, cHero, flagJetpack, flagHoldRope, flagMoveRope);

}

}
```