

```
//11 direction of robot
```

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
    int con, x, y, distance, sum_distance;
```

```
    //สร้างตัวแปร x, y มาเก็บแกน x, y และสร้าง distance เป็นตัวเก็บระยะทาง และ sum_distance เป็นระยะทางทั้งหมด
```

```
    con = 1;
```

```
    sum_distance = 0;
```

```
    while(con == 1)
```

```
    {
```

```
        printf("input your x axis (0, 1, -1) : ");
```

```
        scanf("%d", &x);
```

```
        printf("input your y axis (0, 1, -1) : ");
```

```
        scanf("%d", &y);
```

```
        printf("input your distance : ");
```

```
        scanf("%d", &distance);
```

```
        //ให้ใส่แกน x, y และระยะทาง
```

```
        if(x == 0 && y == 1)
```

```
        {
```

```
            printf("North with %d distance\n", distance);
```

```
            sum_distance += distance;
```

```
            printf("sum distance = %d\n", sum_distance);
```

```
        }
```

```
        else if(x == 0 && y == -1)
```

```
        {
```

```
            printf("North with %d distance\n", distance);
```

```
            sum_distance += distance;
```

```
            printf("sum distance = %d\n", sum_distance);
```

```
        }
```

```
        else if(x == 0 && y == 1)
```

```
        {
```

```
            printf("South with %d distance\n", distance);
```

```
            sum_distance += distance;
```

```
            printf("sum distance = %d\n", sum_distance);
```

```
        }
```

```
        else if(x == 1 && y == 0)
```

```
        {
```

```
            printf("East with %d distance\n", distance);
```

```
            sum_distance += distance;
```

```
            printf("sum distance = %d\n", sum_distance);
```

```
        }
```

```
        else if(x == -1 && y == 0)
```

```
        {
```

```
            printf("West with %d distance\n", distance);
```

```
            sum_distance += distance;
```

```
            printf("sum distance = %d\n", sum_distance);
```

```
        }
```

```

else if(x == 1 && y == 1)
{
    printf("Northwest with %d distance\n", distance);
    sum_distance += distance;
    printf("sum distance = %d\n", sum_distance);
}
else if(x == 1 && y == -1)
{
    printf("Southeast with %d distance\n", distance);
    sum_distance += distance;
    printf("sum distance = %d\n", sum_distance);
}
else if(x == -1 && y == -1)
{
    printf("Southwest with %d distance\n", distance);
    sum_distance += distance;
    printf("sum distance = %d\n", sum_distance);
}

```

//นำ x, y มาหาทิศทาง เช่น ถ้า x เป็น 0 และ y เป็น 1 ก็แสดงว่าเป็นทิศเหนือ ก็จะแสดงผลว่าทิศเหนือด้วยระยะทางเท่าไร  
แล้วระยะทางรวมเท่าไร

```

else
{
    printf("wrong input\n");
}

```

//ถ้าไม่ได้ใส่ 0, 1, -1 ก็บอกว่า wrong input

```

printf("continues ? (1 for continues) : ");
scanf("%d", &con);
//เป็นการถามว่าจะทำต่อไหม และกด 1 เพื่อทำอีกครั้ง

```

```

}

```

```

}

```

Result

```

input your x axis (0, 1, -1) : 0
input your y axis (0, 1, -1) : 1
input your distance : 50
North with 50 distance
sum distance = 50
continues ? (1 for continues) : 1
input your x axis (0, 1, -1) : 1
input your y axis (0, 1, -1) : 1
input your distance : 20
Northwest with 20 distance
sum distance = 70
continues ? (1 for continues) : 1
input your x axis (0, 1, -1) : 51
input your y axis (0, 1, -1) : 2
input your distance : 851
wrong input
continues ? (1 for continues) : |

```