

```
1 //header file
2 #include <stdio.h>
3
4 //main function
5 void main()
6 {
7     int array[]={7,10,1,8,3,1,4}; //array definition
8     int profit=0; //to store profit
9     int counter1,counter2; //counter variable
10    int sell_day; //to store the selling day
11    int buy_day; //to store the buy day;
12
13    //printing the datas
14    printf("datas:\n");
15    for(counter1=0;counter1<7;counter1++)
16    {
17        printf("%d ",array[counter1]);
18    }
19    printf("\n");
20    //finding the profit
21    for(counter1=0;counter1<7;counter1++)
22    {
23        for(counter2=counter1+1;counter2<7;counter2++)
24        {
25
26            if(profit<array[counter2]-array[counter1])
```

```
28         profit=array[counter2]-array[counter1];
29         sell_day=counter2;
30         buy_day=counter1;
31     }
32 }
33 }
34
35 //printing the profit details
36 printf("maximun profit: %d\nbuy date:%d\nsell day:%d\n",profit,buy_day+1
        ,sell_day+1);
37
38 }
```

datas:

7 10 3 8 3 1 4

maximun profit: 5

buy date:3

sell day:4

```
datas:  
2 4 3 8 3 1 4  
maximun profit: 6  
buy date:1  
sell day:4
```