

```
1 class solution
2 {
3     public int[] generatematrix(int n)
4     {
5         int r1=0,r2=n-1;
6         int c1=0;c2=n-1;
7
8         int[][] arr = new int[n][n];
9         int val=1;
10
11         while(r1<=r2 && c1<=c2)
12         {
13             //moving left to right
14             for(int c=c1; c<=c2; c++) arr[r1][c]=val++;
15
16             //move down
17             for(int r=r1+1; r<=r2; r++) arr[r][c2]=val++;
18
19             //move right to left
20             //move up
21
22             if(r1<r2 && c1<c2)
23             {
24                 //move right to left
25                 for(int c=c2-1; c>c1; c--) arr[r2][c]=val++;
26                 //move up
27                 for(int r=r2; r>r1; r--) arr[r][c1]=val++;
28             }
29             r++;
```



```
itto.c > spiral matrix.cpp > solution > generatematrix(int)
    for(int r=r1+1; r<=r2; r++) arr[r][c2]=val++;

    //move right to left
    //move up

    if(r1<r2 && c1<c2)
    {
        //move right to left
        for(int c=c2-1; c>c1; c--) arr[r2][c]=val++;
        //move up
        for(int r=r2; r>r1; r--) arr[r][c1]=val++;
    }
    r++;
    r2--;
    c1++;
    c2--;
}
return arr;
}
```



subarray sum == k.txt

```
1  #include<iostream>
2  using namespace std;
3  class solution
4  {
5      public:
6          //function to find a continuous sub array sum == k
7          vector<int> subarraysum(int a[],int n,)
8          {
9              //your code here
10             int sas=0,i=0,c=0;
11             vector<int> v;
12             for(int j=0;j<n;j++)
13             {
14                 if(sas+arr[j]<=s)
15                 {
16                     sas+=arr[j];
17                 }
18                 else
19                 {
20                     sas+=arr[j];
21                     while(sas>s)
22                     {
23                         sas-=arr[i];
24                         i++;
25                     }
26                 }
27                 if(sas==s)
28                 {
29                     v.push_back(i+1);
```



C: > bittu folder > subarray sum==k.txt

```
23         sas-=arr[i];
24         i++;
25     }
26 }
27 if(sas==s)
28 {
29     v.push_back(i+1);
30     v.push_back(j+1);
31     return v;
32 }
33 }
34 if(c==0)
35 {
36     v.push_back(-1);
37     return v;
38 }
39 }
40 }
41 int main()
42 {
43     int t;
44     cin>>t;
45     while(t-->0)
46     {
47         int n;
48         long long s;
49         cin>>n>>s;
50         int arr[n];
51         const int mx=1e9;
```

I



C:\> bitto folder > subarray sum==k.txt

```
40 }
41 int main()
42 {
43     int t;
44     cin>>t;
45     while(t--)
46     {
47         int n;
48         long long s;
49         cin>>n>>s;
50         int arr[n];
51         const int mx=1e9;
52         for(int i=0; i<n; i++)
53         {
54             cin>arr[i];
55         }
56         solution ob;
57         vector<int>res;
58         res=ob.subarraysum(arr,n,s);
59
60         for(int i=0; i<res.size(); i++)
61             cout<<res[i]<<;
62         cout<<endl;
63     }
64 }
```