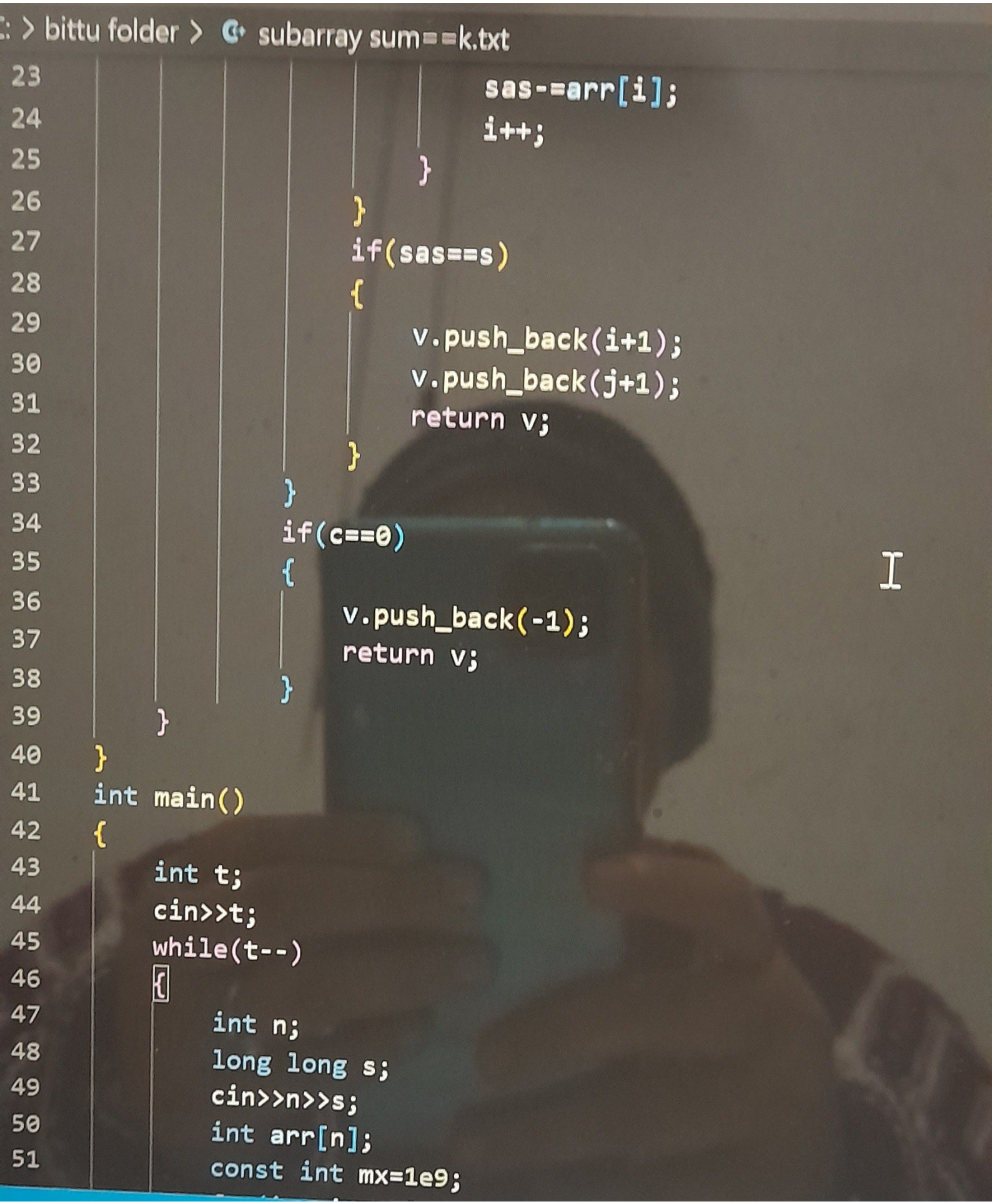
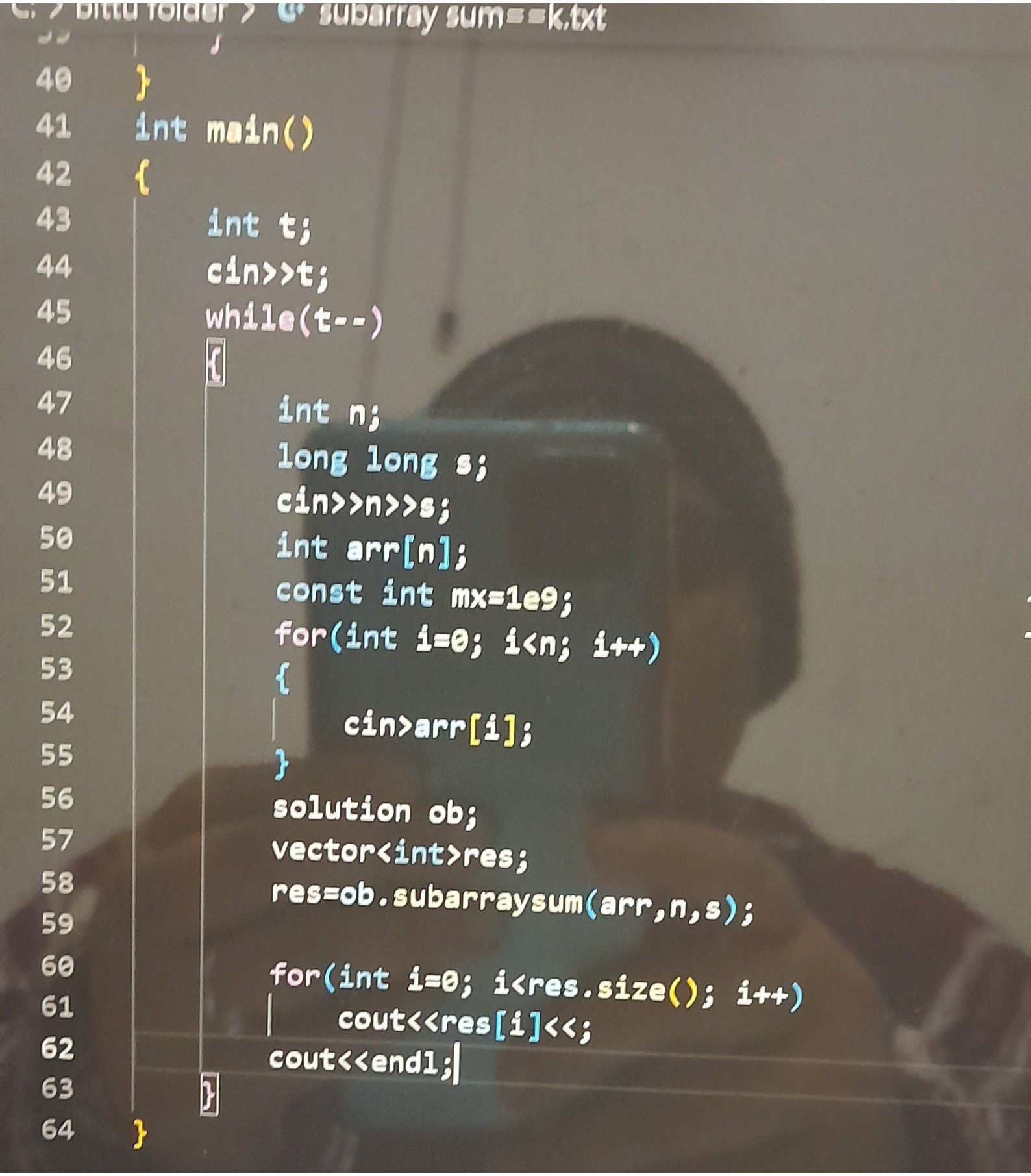
```
> bitto.c > spiralmatrix.cpp > solution > generatematrix(int)
class solution
{
    public int[] generatematrix(int n)
    {
        int r1=0,r2=n-1;
        int c1=0;c2=n-1;

        int[][] arr = new int[n][n];
        int val=1;

        while(r1<=r2 && c1<=c2)
        {
            //moving left to right
            for(int c=c1; c<=c2; c++) arr[r1][c]=val++;

            //move down
            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++;
```

```
            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

```
#include<iostream>
using namespace std;
class solution
{
    public:
    //function to find a continuous sub array sum == k
    vector<int> subarraysum(int a[],int n,)
    {
        //your code here
        int sas=0,i=0,c=0;
    vector<int> v;
            for(int j=0;j<n;j++)
            {
                if(sas+arr[j]<=s)
                {
                    sas+=arr[j];
                }
                else
                {
                    sas+=arr[j];
                    while(sas>s)
                    {
                        sas-=arr[i];
                        i++;
                    }
                }
                if(sas==s)
                {
                    v.push_back(i+1);
```


: > bittu folder > subarray sum==k.txt
sas-=arr[i];
i++;
}
}
if(sas==s)
{
v.push_back(i+1);
v.push_back(j+1);
return v;
}
}
if(c==0)
{
v.push_back(-1);
return v;
}
}
}
int main()
{
int t;
cin>>t;
while(t--)
{
int n;
long long s;
cin>>n>>s;
int arr[n];
const int mx=1e9;


C: > bittu folder > subarray sum==k.txt
}
int main()
{
int t;
cin>>t;
while(t--)
{
int n;
long long s;
cin>>n>>s;
int arr[n];
const int mx=1e9;
for(int i=0; i<n; i++)
{
cin>arr[i];
}
solution ob;
vector<int>res;
res=ob.subarraysum(arr,n,s);
for(int i=0; i<res.size(); i++)
cout<<res[i]<<;
cout<<endl;
}
}