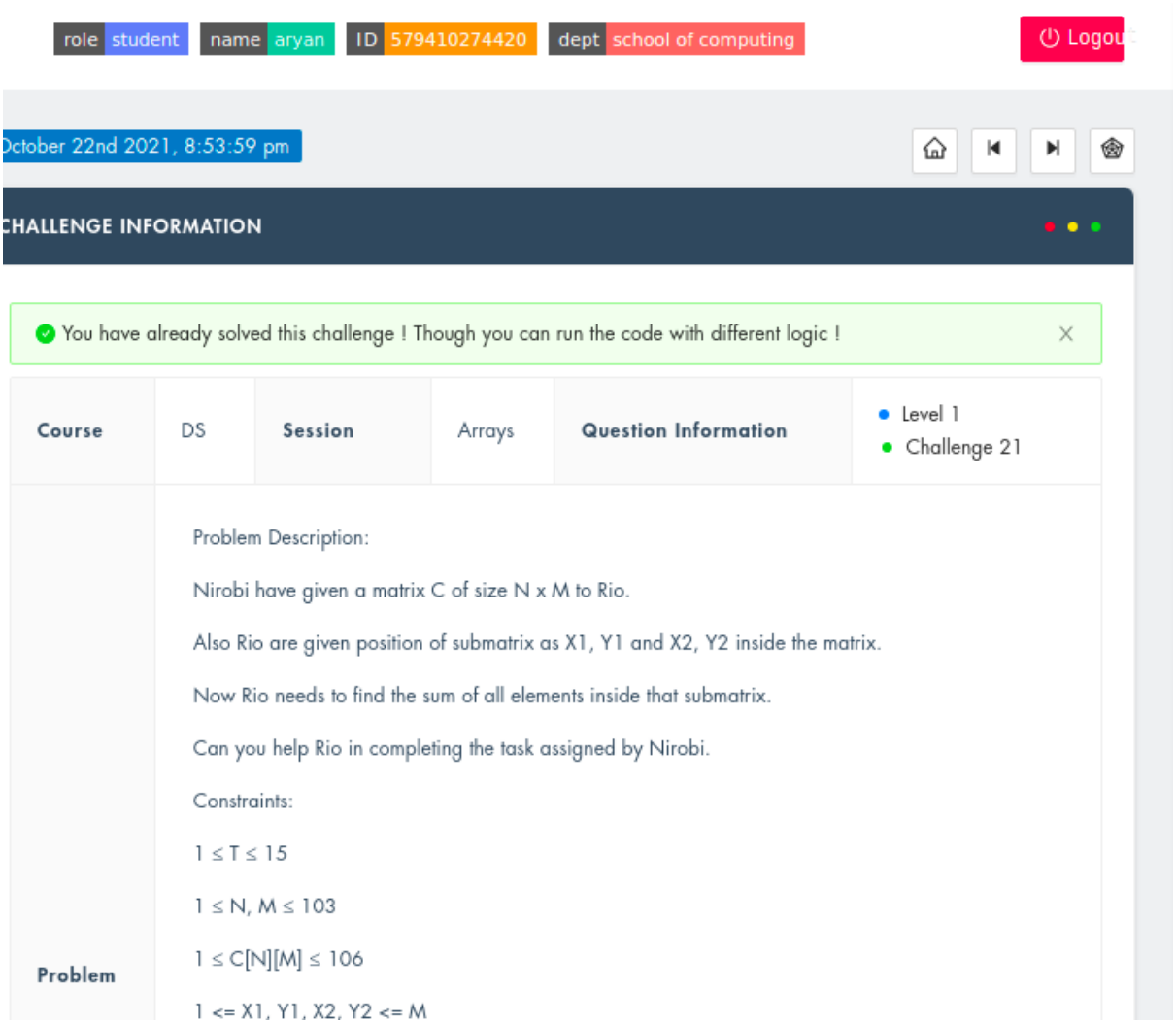
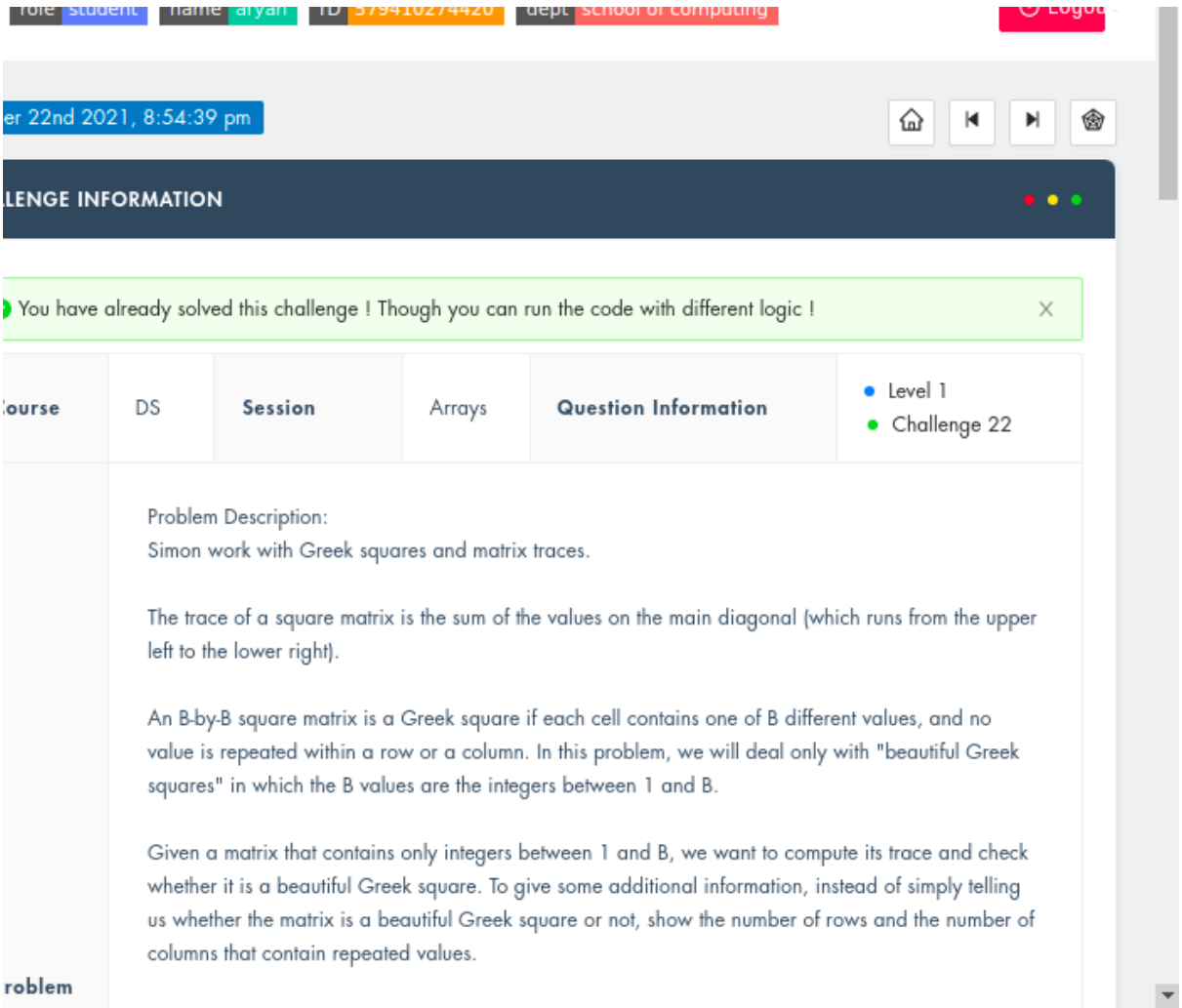



```
#include <iostream>
using namespace std;

int main()
{
    int t;
    cin>>t;
    while(t--)
    {
        int m, n;
        cin>>m>>n;
        int C[m][n];
        for(int i = 0; i < m;i++)
        {
            for(int j = 0; j < n; j++)
            {
                cin>>C[i][j];
            }
        }
```

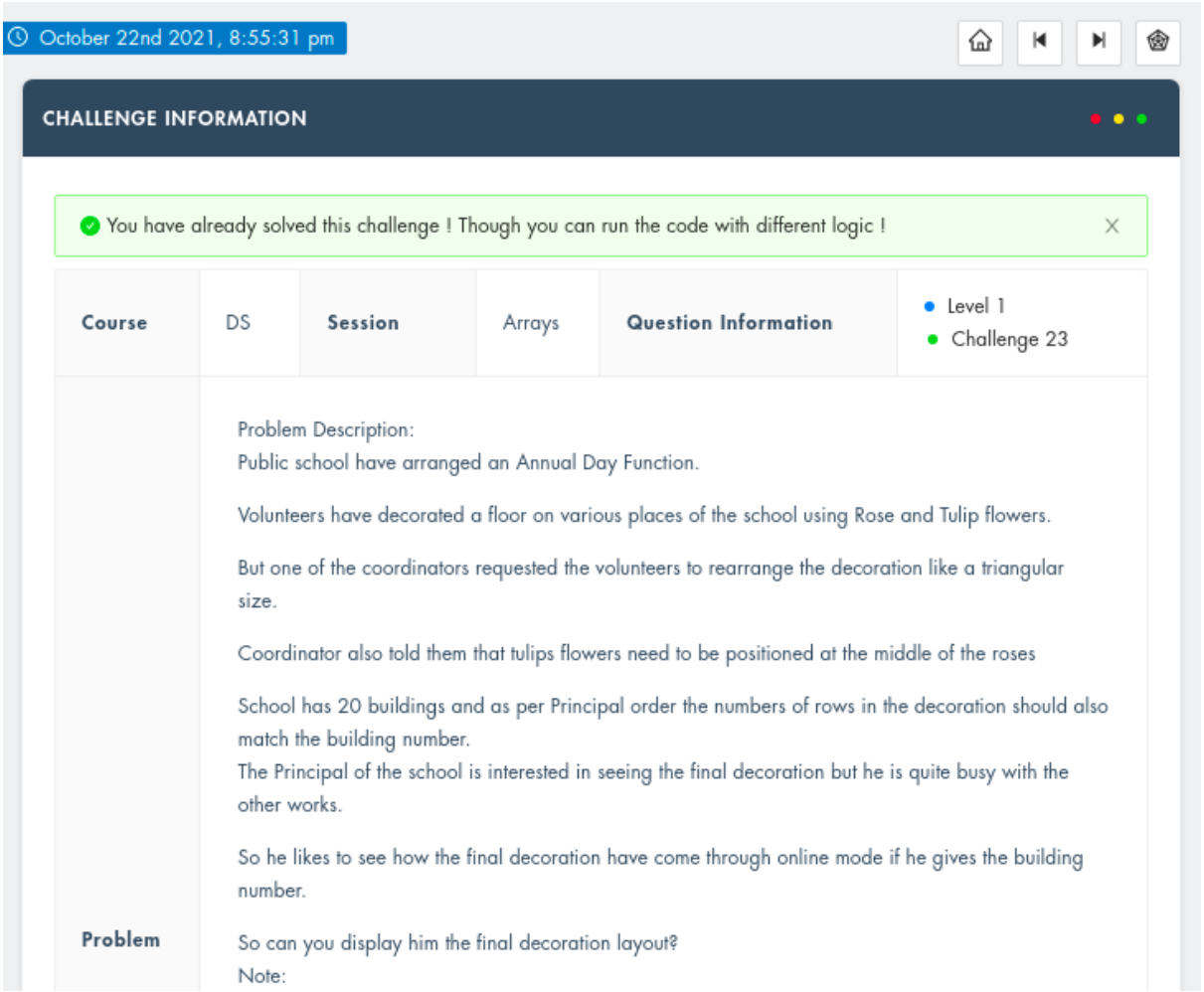
```
        int a,b,x,y;
        cin>>a>>b>>x>>y;
        int sum = 0;
        for(int i = a-1; i <= x-1;i++)
        {
            for(int j = b-1; j <= y-1; j++)
            {
                sum += C[i][j];
            }
        }
        cout<<sum<<"\n";

    }

        return 0;
}
```




```
#include <bits/stdc++.h>
using namespace std;
```

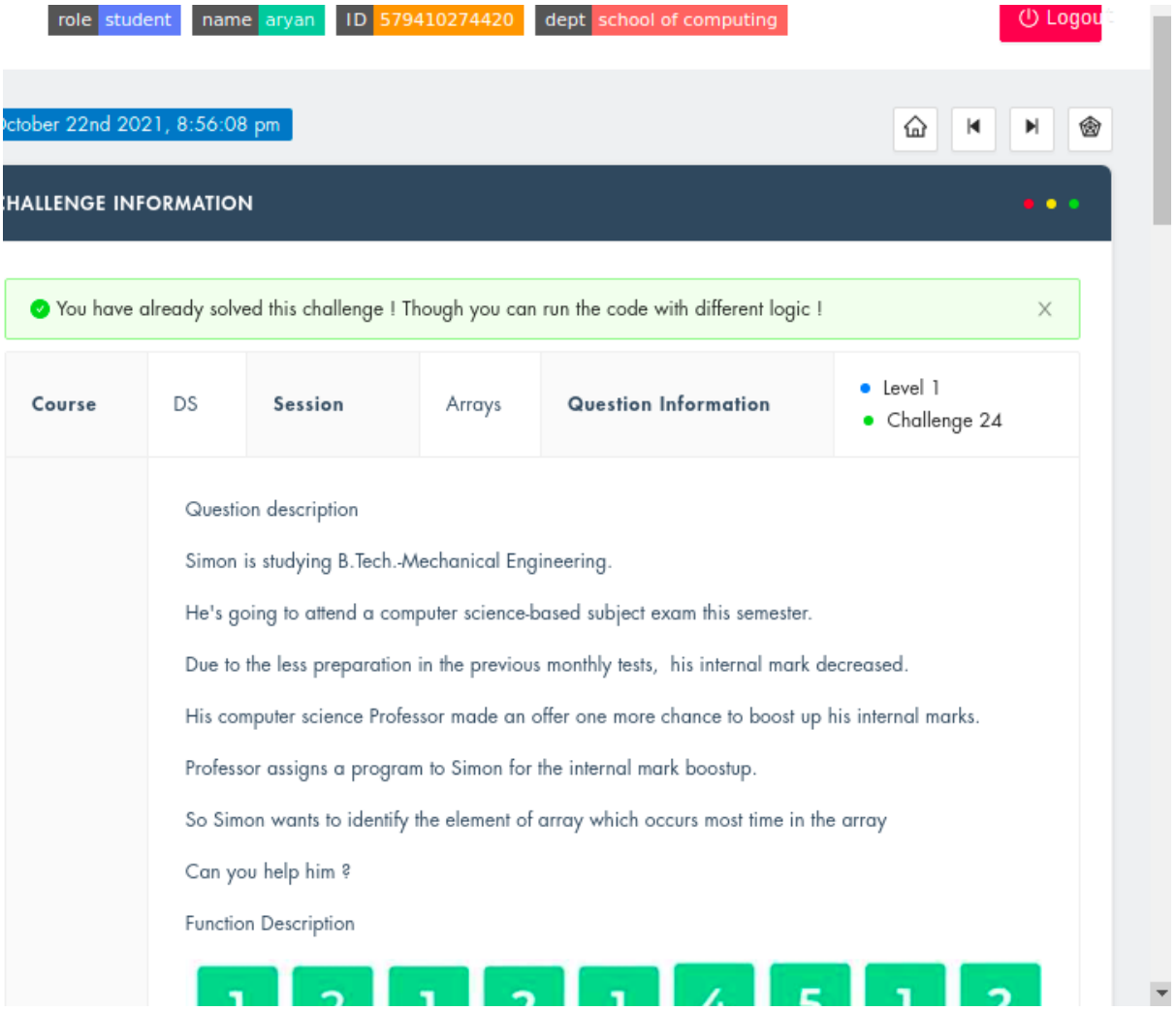
```
#define lli long long int
void ss()
{
    return;
    cout<<" for(i=0;i<n;i++) void solve() int g[105][105];";
}
int main()
{

    int t;
    cin >> t;

    for (int test_case = 1; test_case <= t; test_case++) {
        int n;
        cin >> n;

        int** arr = (int**)(malloc(sizeof(int*) * n));
        lli sum = 0;
        int row = 0;

        for (int i = 0; i < n; i++) {
            arr[i] = (int*)(malloc(sizeof(int) * n));
            map<int, int> mymap;
            bool flag = false;
            for (int j = 0; j < n; j++) {
                cin >> arr[i][j];
                if (i == j)
                    sum += arr[i][j];
                if (flag == false && mymap.find(arr[i][j]) != mymap.end()) {
                    row++;
                    flag = true;
                }
                if (flag == false)
                    mymap[arr[i][j]]++;
            }
        }

        int col = 0;
        for (int i = 0; i < n; i++) {
            map<int, int> mymap;
            bool flag = false;
            for (int j = 0; j < n; j++) {
                if (flag == false && mymap.find(arr[j][i]) != mymap.end()) {
                    col++;
                    flag = true;
                    break;
                }
                if (flag == false)
```

```
                mymap[arr[j][i]]++;
            }
        }
        cout<< sum << " " << row << " " << col << endl;
    }

    return 0;
}
```



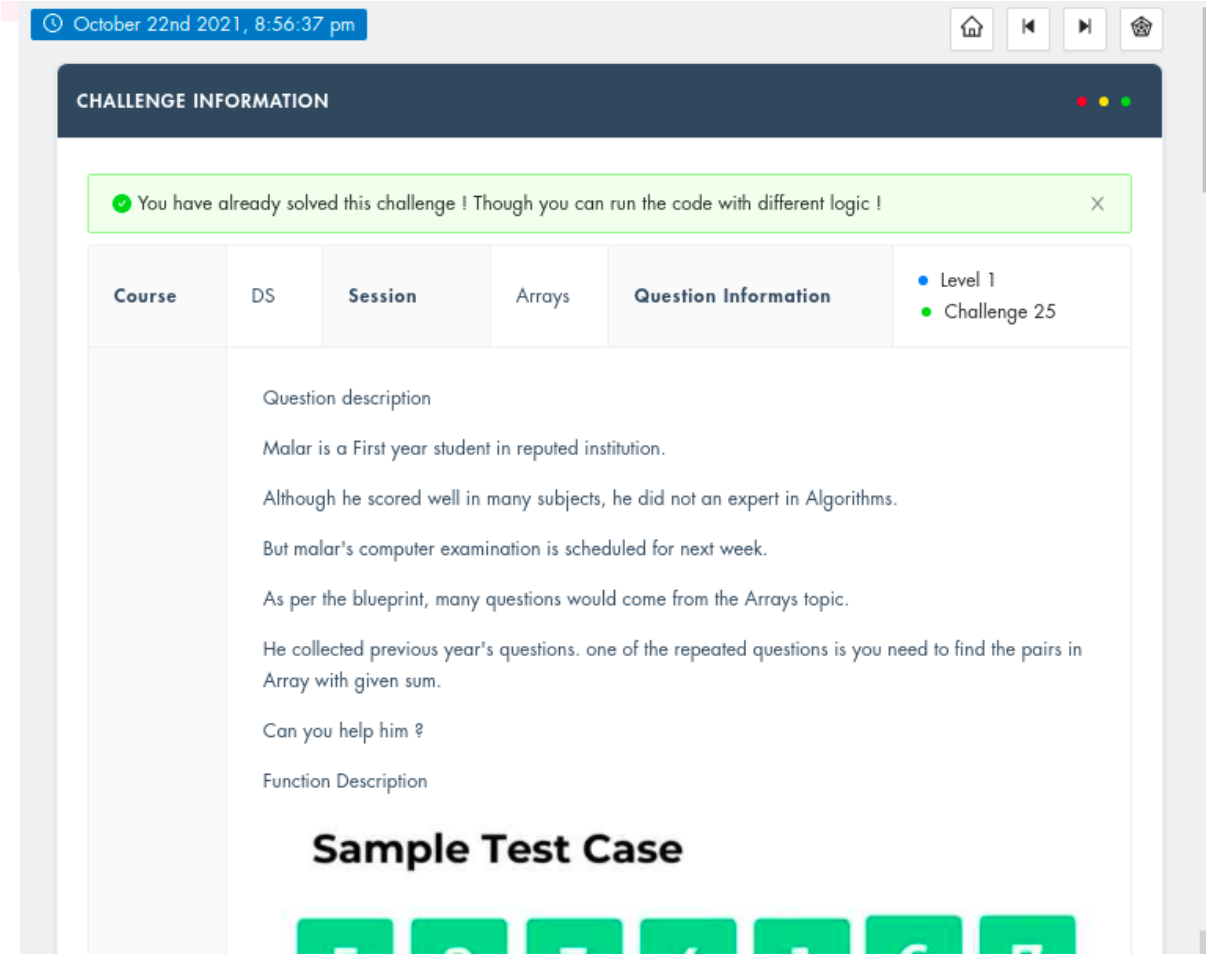

```
#include <iostream>
using namespace std;
int main()
{
    int rows;
    cin>>rows;
    int i;
  for(i=1;i<=rows;i++)
      {
          for(int j = 1; j <= i; j++)
          {
              if(j == i || j == 1 || i == rows)    cout<<"1 ";
```

```
            else cout<<"0 ";
        }
         cout<<"\n";
    }
        return 0;
}
```



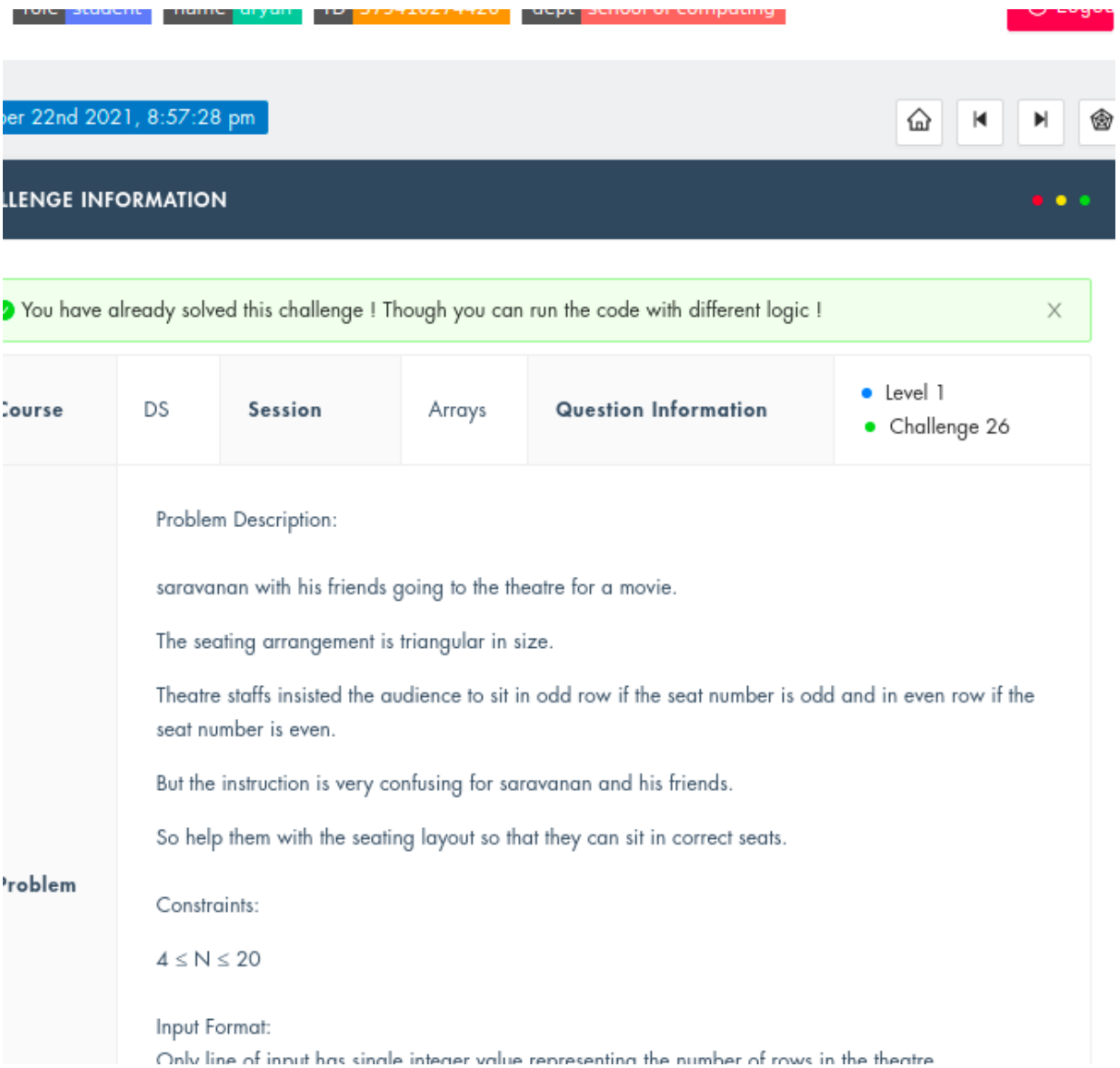

```
#include <bits/stdc++.h>
using namespace std;
int main()
{
   int n;
   cin>>n;
   int arr[n];

   for(int i=0;i<n;i++)
   {
      cin>>arr[i];

   }
```

```
    int i;
   unordered_map<int, int> hash;
    for(i= 0;i< n;i++)
        hash[arr[i]]++;
    int max_count = 0, res = -1;
    for (auto i : hash) {
        if (max_count < i.second) {
            res = i.first;
            max_count = i.second;
        }
    }

    cout<<res<<"\n";

            return 0;
}
```



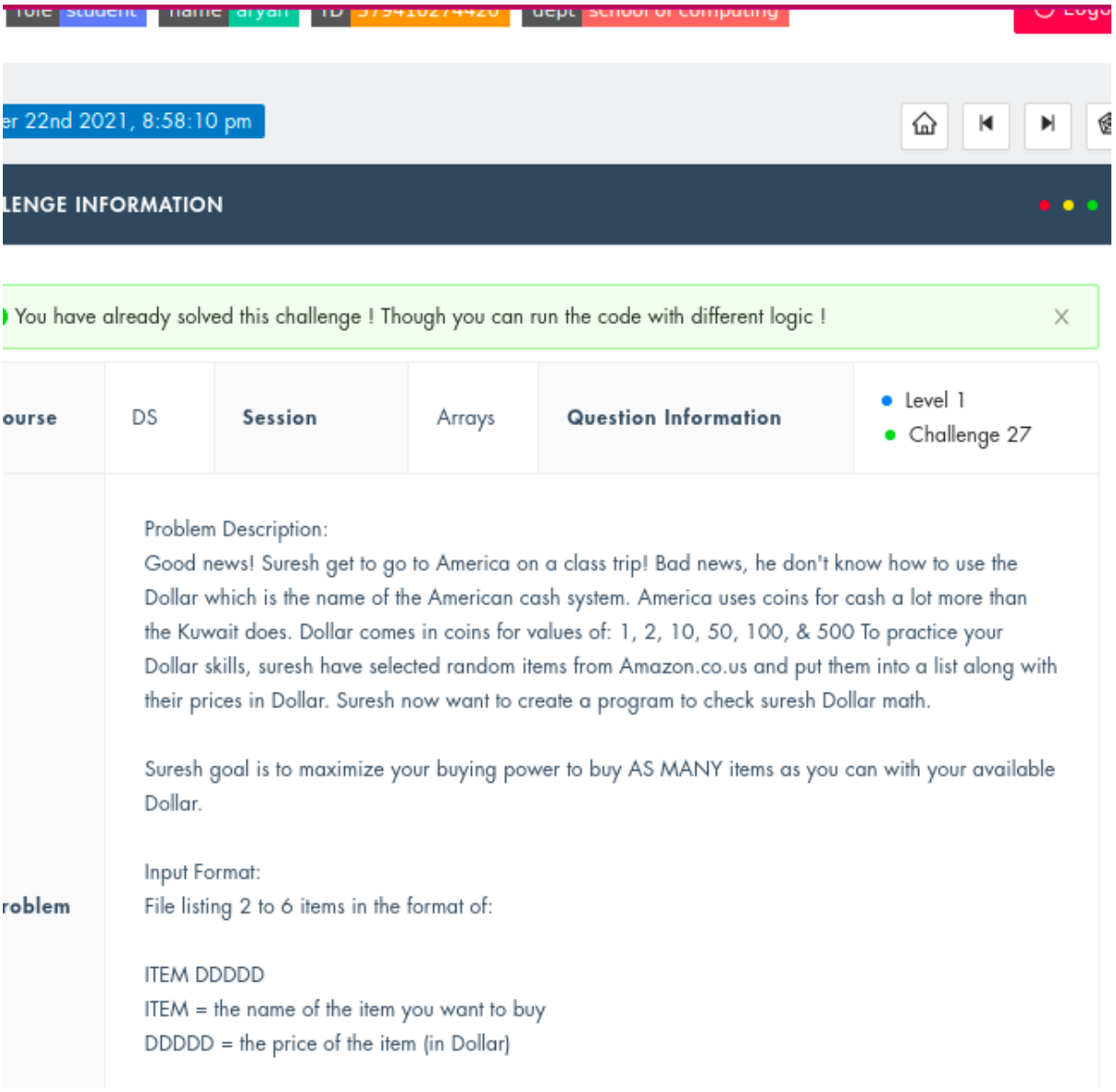

```
#include <bits/stdc++.h>
using namespace std;

int main()
```

```
{

  int n;
  cin>>n;
  int array[n];
  int i;
  for(i=0;i<n;i++)
     cin>>array[i];
  int num,j,count=0;
  cin>>num;
  vector<int>v ;
  for(int i =0; i< n; i++)
  {
     for(j=i+1;j<n;j++)
     {
        if(array[i] +array[j] == num)
        {
           cout<<"["<<array[i]<<" "<<array[j]<<"]\n";
              count++;
        }

     }
  }
  cout<<"Total Number of Pairs:"<<count;
           return 0;
}
```



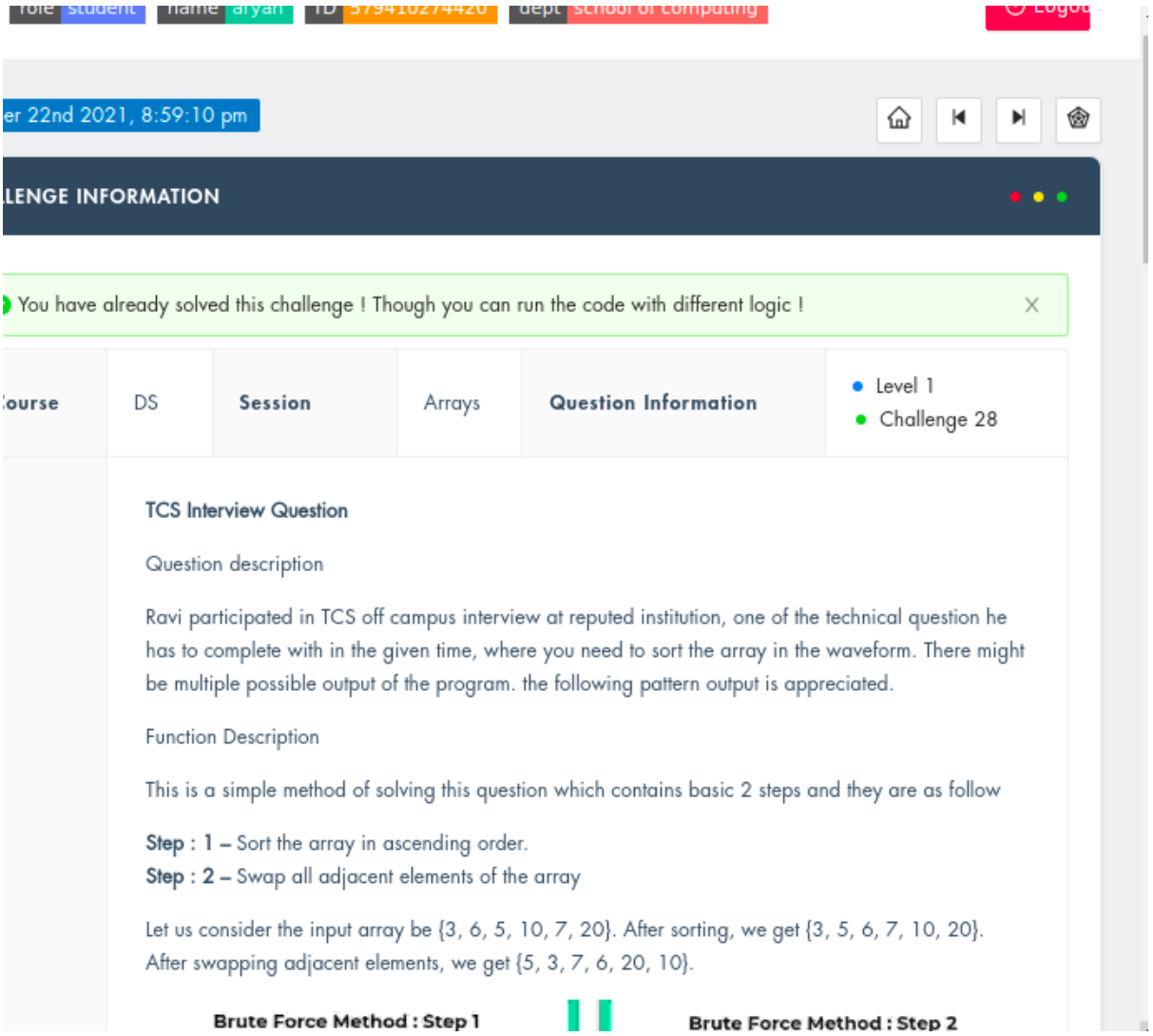

```
#include <iostream>
using namespace std;
int main()
{

int N;
cin>>N;
int i;
for(i=1;i<=N;i++)
{
   int s = 1,p=2,j=0;
   while(j < i*2)
   {
      if(i % 2 == 1)
      cout<<j +s<<" ";
      else
       cout<<j+p<<" ";
```

```
        j+=2;
    }
   // j+=2;
    cout<<"\n";
}

}
```



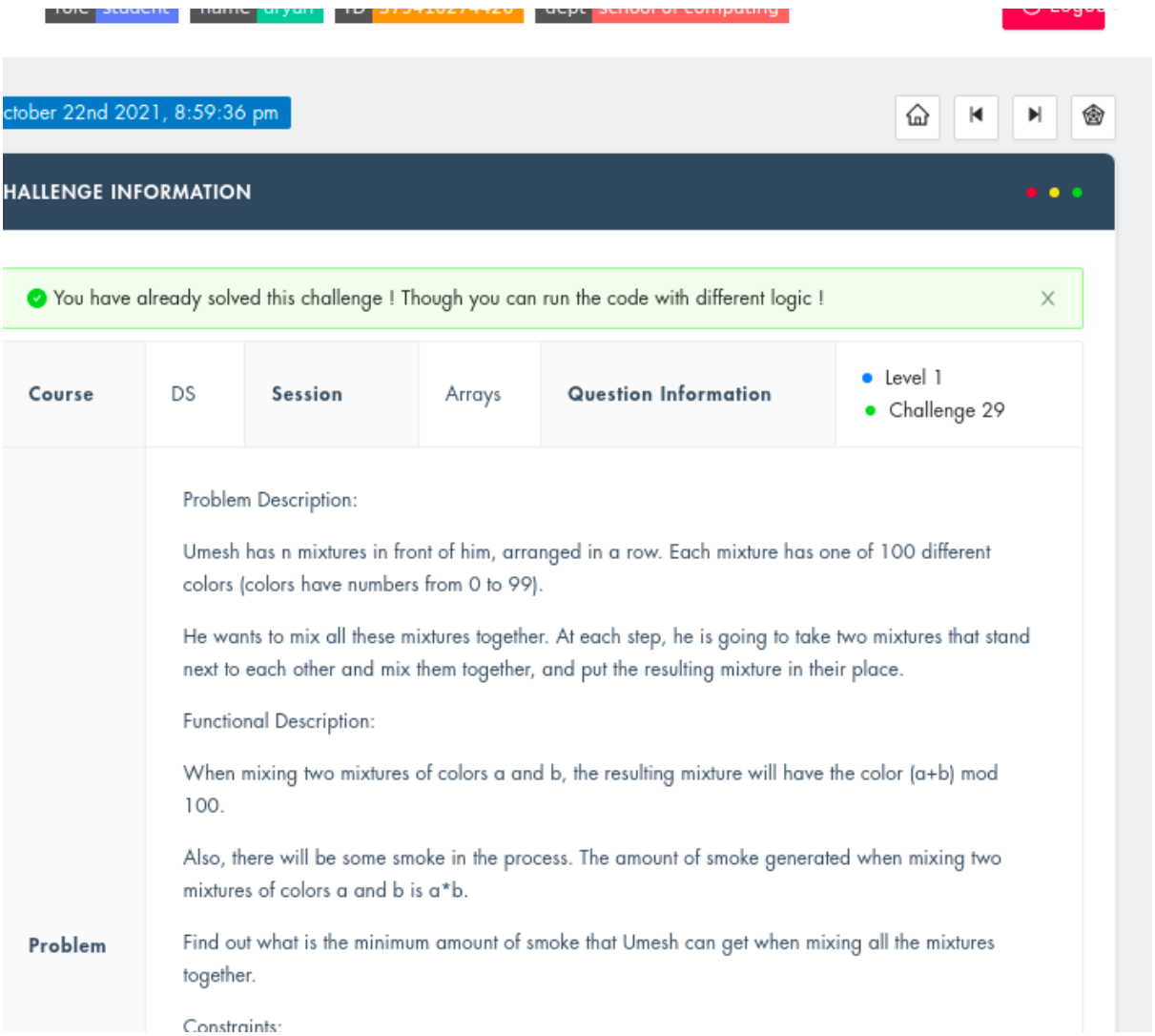

```
#include <bits/stdc++.h>
using namespace std;
int main()
{
    int MAX,LEN;
```

```
    cin>>MAX>>LEN;
    string a[LEN];
    int b[LEN],c[LEN],count=0,i,j;
    for(i=0;i<LEN;i++){cin>>a[i]>>b[i];c[i]=b[i];}
    for(i=0;i<LEN;i++){
        if(MAX-c[i]>0){
            for(j=0;j<LEN;j++){//cout<<"hello there";
                if(c[i]==b[j]){//cout<<"hello there";
                    cout<<"I can afford "<<a[i]<<endl;
                    MAX-=c[i];
                    break;
                }
            }
        }
        else{
            for(j=0;j<LEN;j++){
                if(c[i]==b[j]){//cout<<"hello there";
                    cout<<"I can't afford "<<a[i]<<endl;
                    count++;
                    break;
                }
            }
        }
    }
    (count==LEN) ? cout<<"I need more Dollar!" : cout<<MAX;
            return 0;
            cout<<"char name[MAX][LEN]; int price[MAX] afford[MAX] for(i=0;i<items;i++)";
}
```



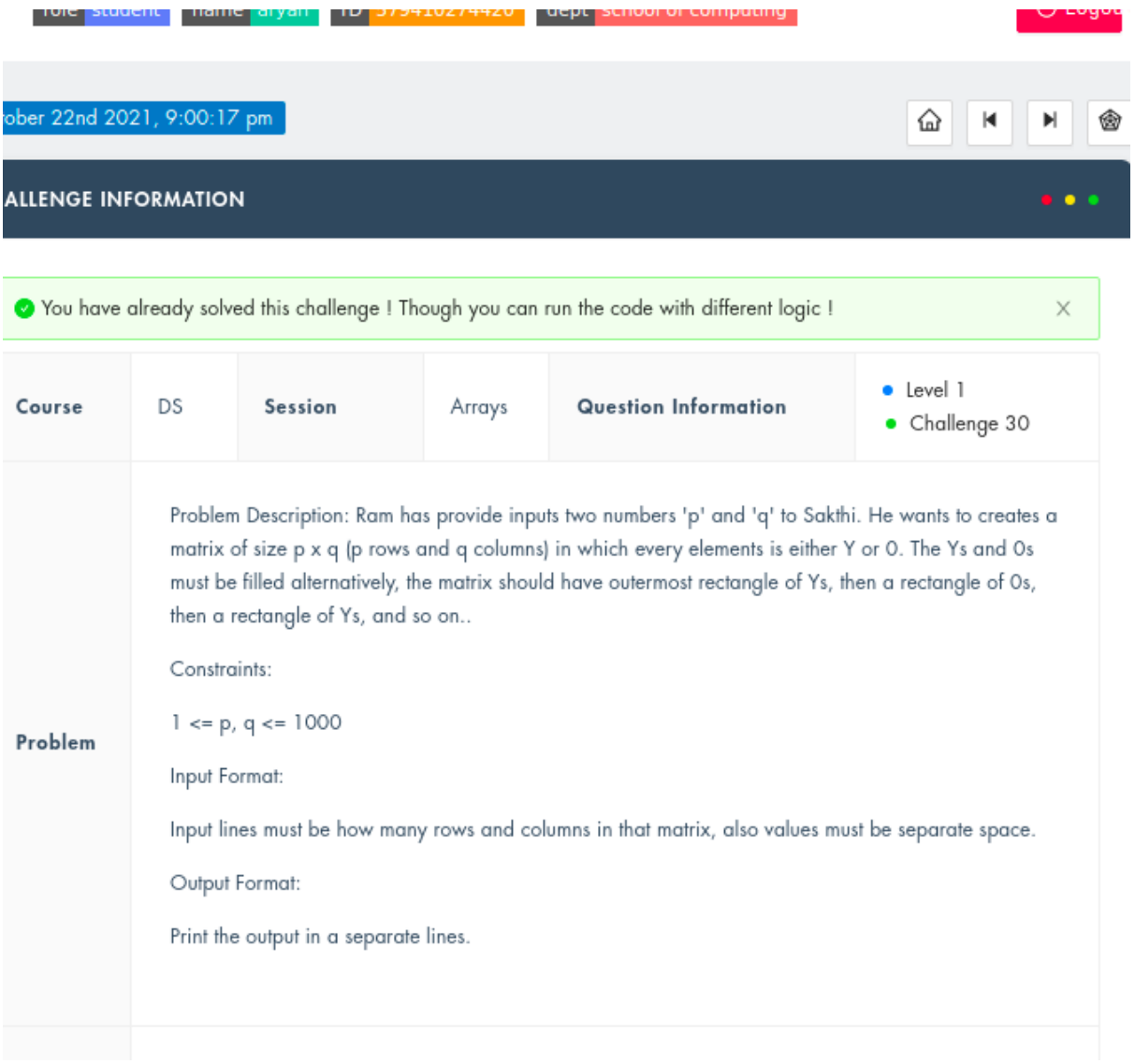

```
#include <bits/stdc++.h>
using namespace std;
int main()
{
   int n;
   cin>>n;
   int array[n];
   for(int i= 0; i < n ; i++)
   {
      cin>>array[i];
   }

sort(array, array + n);
int i;
for(i=0;i<n;i++)
{
   swap(array[i], array[i+1]);
   i++;
```

```
}
for(int s : array)
cout<<s<<" ";

        return 0;
        cout<<"if(array[i]>array[j])";
}
```




```
#include<bits/stdc++.h>
using namespace std;
int main()
{
    int n;
    cin>>n;
   while(n!=-1)
  {  long long a[n];

    for(int i=0;i<n;i++)
```

```
    {
        cin>>a[i];
    }

    vector<vector<long long>>dp(n,vector<long long>(n+1,100000000000000000));
    long long sum[n][n+1];
    for(int i=0;i<n;i++)
    {
        sum[i][1]=a[i];
        dp[i][1]=0;
    }

    for(int len=2;len<=n;len++)
    {
        for(int i=0;i<=n-len;i++)
        {
            for(int j=1;j<len;j++)
            {
                sum[i][len]=(sum[i][j]+sum[i+j][len-j])%100;
                long long x=dp[i][j]+dp[i+j][len-j]+(sum[i][j]*sum[i+j][len-j]);
                dp[i][len]=min(x,dp[i][len]);
            }
        }
    }
    cout<<dp[0][n]<<endl;
      n=-1;cin>>n;
  }
  return 0;
  cout<<"scount[100][100] colours[100]";
}
```




```
#include <bits/stdc++.h>
using namespace std;
void ss()
{
	cout<<"while(top<=bottom && right>=left)";
}
void fill0X(int m, int n)
{
	int i, k = 0, l = 0,r = m, c = n;
	char a[m][n], x = 'Y';
	while (k < m && l < n)
	{
		for (i = l; i < n; ++i)
			a[k][i] = x;
		k++,i=k;
		while(i < m)
			a[i][n-1] = x,i++;
```

```
                n--;
                if (k < m)
                        for (i = n; i >= l; --i)
                                a[m-1][i] = x;
                        m--;

                if (l < n)
                        for (i = m; i >= k; --i)
                                a[i][l] = x;
                        l++;

                x = (x == '0')? 'Y': '0';
        }
        for (i = 0; i < r; i++)
        {
                for (int j = 0; j < c; j++)
                {
                        cout << a[i][j];
                                        if(j < c-1)
                                        cout<<" ";
                }
                cout <<"\n";
        }
}
int main()
{
   int m,n;
   cin>>m>>n;
        fill0X(m, n);
}
```