

Q)

Pseudo Code:

- 1) first initialize the s;
And then Perform a loop which iterate on the values of s,
- 2) initialize the n max , and indexofMax,
- 3) Perform a loop on n, then initialize x,
- 4) And applying a check if x is greater than max then put max = x and put indexofMax =i,
- 5) Then call the function valid which checks if the strip is valid or not.
- 6) Then we will create a function which checks if the strip is valid or not.
- 7) Inside the function , get the mid of the parts.
- 8) if the numbers of the parts is even .which means there is no center.
- 9) if the first index and the last index are not equal 1.
- 10) Then check if each elements increases by one from left to center and decreases by one from the right to the center.

Implementation:

```
#include<iostream>
using namespace std;
bool valid(int arr[],int n,int max,int indexofmax){
    int mid=n/2 ;
    if(n%2!=1){
        return false;
    }
    else if(arr[0]!=1&& arr[n-1]!=1){
        return false;
    }
    else if(arr[mid]!=max){
        return false;
    }
    else {
        for(int i=1;i<=mid;i++){
            int righthvalue=arr[indexofmax+i];
            int leftvalue=arr[indexofmax-i];
            if(righthvalue!=leftvalue||righthvalue!=arr[mid]-i)
            {
```

```

        return false;
    }
}
return true;
}
}

```

```

int main() {
    int s;
    cin>>s;
    while(s--){
        int n,max=0,indexofmax;
        cin>>n;
        int arr[n];
        for(int i=0;i<n;i++){
            int x;
            cin>>x;
            if(x>max){
                max=x;
                indexofmax=i;
            }
            arr[i]=x;
        }
        if(valid(arr,n,max,indexofmax)){
            cout<<"yes"<<"\n";
        }
        else{
            cout<<"no"<<"\n";
        }
    }
}

```

```
        }  
    }  
    return 0;  
}
```