

Q)

Pseudo Code:

- 1) First initialize t
- 2) And applying a loop on t,
- 3) Initialize an array of size n,
- 4) And then applying a check
- 5) And inside the if check call a function isBeautiful which checks the array is beautiful or not,
- 6) And inside the is Beautiful function perform a loop and check for repeated entry and also check for ascending sorting

Implementation:

```
#include<iostream>
```

```
Using namespace std;
```

```
Bool isBeautiful(int a[] , int n){
```

```
Int sum = a[0];
```

```
Bool isAscSorted = true;
```

```
for(int i =1 ; i< n ; i++){
```

```
if(a[i] == a[i-1])
```

```
Return 0;
```

```
if(a[i] < a[i-1] )
```

```
isAscSorted = false;
```

```
Sum += a[i];
```

```
}
```

```
if(isAscSorted == true)
```

```
Return false;
```

```
Return (sum == (n*(n+1)/2));
```

```
}
```

```
Int main(){
```

```
Int t ;
cin>>t;
while(t--){
Int n;
cin>>n
Int a[n];

if(isBeautiful(a, n))
cout<<"Yes";
Else
cout<<"No";

Return 0;
}
```