

```
import java.util.Scanner;

import java.io.*;

class arr{

    public static void main(String[] args){

        Scanner scan= new Scanner(System.in);

        int n=scan.nextInt();

        int a[]=new int[n-1];

        for(int i=0;i<n-1;i++){

            a[i]=scan.nextInt();

        }

        for(int i=0;i<n-1;i++){

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

                if(a[i]>a[j]){

                    int temp=a[i];

                    a[i]=a[j];

                    a[j]=temp;

                }

            }

        }

        for(int i=0;i<n-1;i++){

            if(i+1==a[i]){

                continue;

            }

            else{

                System.out.print(i+1);

                break;

            }

        }

    }

}
```

OUTPUT:

```
PS E:\300> javac arr.java
PS E:\300> java arr
8
1 2 4 6 3 7 8
5
PS E:\300> java arr
5
1 2 3 5
4
```

PROGRAM 2:

```
import java.util.*;
import java.io.*;
class zero{
    public static void main(String[] args){
        Scanner scan= new Scanner(System.in);
        int n=scan.nextInt();
        int a[]=new int[n];
        for(int i=0;i<n;i++){
            a[i]=scan.nextInt();
        }
        int c=0;
        for(int i=0;i<n;i++){
            if(a[i]!=0){
                a[c]=a[i];
                c++;
            }
        }
        while(c<n){
            a[c]=0;
            c++;
        }
        for(int i=0;i<n;i++){
```

}

OUTPUT:

— 1000 —

PROGRAM 3:

```
import java.util.Scanner;
```

```
import java.io.*;
```

```
class row{
```

```
public static void main(String[] args){
```

```
Scanner scan= new Scanner(System.in);
```

```
String s=scan.nextLine();
```

```
int currentValue=0,total=0,prev=0;
```

```
for (int i = s.length() - 1; i >= 0; i--) {
```

```
char currentChar = s.charAt(i);
```

```
switch (currentChar) {
```

case 'l':

```
currentValue = 1;
```

```
break;
```

case 'V':

```

        currentValue = 5;
        break;
    case 'X':
        currentValue = 10;
        break;
    case 'L':
        currentValue = 50;
        break;
    case 'C':
        currentValue = 100;
        break;
    case 'D':
        currentValue = 500;
        break;
    case 'M':
        currentValue = 1000;
        break;
    }
    if (currentValue < prev) {
        total -= currentValue;
    }
    else {
        total += currentValue;
    }
    prev=currentValue;
}
System.out.println(total);
}
}

```

OUTPUT:

```

PS E:\300> javac row.java
PS E:\300> java row
IV
4
PS E:\300> java row
III
3
PS E:\300> java row
MCMXCIV
1994

```

program 4

```

import java.util.*;

class palindrome{

public static void main(String[] args){

Scanner scan=new Scanner(System.in);

String s=scan.nextLine();

String r="";

String p="";

s=s.toLowerCase();

for(int i=0;i<s.length();i++){

char ch=s.charAt(i);

if(ch>='a' && ch<='z'){

r+=ch;

}

}

int n=r.length();

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

p+=r.charAt(n-i-1);

}

if(p.equals(r)){

System.out.println("True");

}

else

{

```

```
System.out.println("False");
```

```
}
```

```
}
```

```
}
```

```
E:\>cd 300
```

```
E:\300>javac palindrome.java
```

```
E:\300>java palindrome
```

```
"A man,a plan,a canal:panama"
```

```
True
```