```
1.Program:
import java.util.*;
public class Main {
  public static void main(String[] args) {
     Scanner sc=new Scanner(System.in);
     int n=sc.nextInt();
     int[] arr=new int[n];
     Set<Integer>s=new HashSet<>();
     for(int i=0;i< n;i++)
       arr[i]=sc.nextInt();
     int index=0;
     for(int i=0;i<arr.length;i++)
       if(arr[i]!=0)
          arr[index++]=arr[i];
     while(index<n)
       arr[index++]=0;
     for(int i=0;i<n;i++)
       System.out.print(arr[i]+" " );
2.Program:
import java.util.*;
public class Main {
  public static void main(String[] args) {
     Scanner sc = new Scanner(System.in);
     String s = sc.next();
     long n = sc.nextLong();
```

```
long countInS = 0;
for (char c : s.toCharArray()) {
    if (c == 'a') countInS++;
}

long fullRepeats = n / s.length();
long remainder = n % s.length();

long totalCount = fullRepeats * countInS;

for (int i = 0; i < remainder; i++) {
    if (s.charAt(i) == 'a') {
        totalCount++;
    }
}

System.out.println(totalCount);
}</pre>
```