

Youser Alalusi

CSC 138 – 01

12-03-2021

Programming 4

```
Prog4.java
CSC138 > src > (default package) > Prog4 > main(String[]) : void
1  /*
2   * Youser Alalusi
3   * 12-03-2021
4   * CSC 138 - 01 Programming 4
5   */
6
7  import java.util.Scanner;
8  public class Prog4
9  {
10     public static void main(String[] args) {
11         Scanner in = new Scanner(System.in);
12         int n;
13         String packets;
14         //print the input
15         System.out.println("Input: ");
16         //take user input for number of packets 'n'
17         n = in.nextInt();
18         //take string input for packets to make length of packets divisible by 3
19         packets = in.next();
20         //if remainder is 1
21         if (n%3 == 1)
22             //add 2 '#' characters
23             packets+="##";
24         //if remainder is 2
25         else if (n%3 == 2)
26             //add 1 '#' characters
27             packets+=" ";
28         //print the output
29         System.out.println("Output: ");
30         //use outer for loop to select buffer of size 3 and inner for loop to iterate over the buffer
31         for(int i = 0; i < n; i+=3){
32             //iterate over the buffer and print packets that has 'High priority'
33             for(int j = 0; j < 3; j++){
34                 //if packet at index=i+j == 'H'
35                 if(packets.charAt(i + j)=='H')
36                     //print its index
37                     System.out.print((i + j) + " ");
38             }
39             //repeat the inner for loop, this time to print the index of packets with 'Low priority'
40             for(int j = 0; j < 3; j++){
41                 if(packets.charAt(i + j)=='L')
42                     System.out.print((i + j)+" ");
43             }
44         }
45     }
46 }
47
```

Problems Javadoc Coverage Console

<terminated> Prog4 [Java Application] C:\Users\19255\Desktop\jdk-13.0.2\bin\javaw.exe (Nov 29, 2021, 2:28:56 PM – 2:29:03 PM)

Input:
4 HLHH

Output:
0 2 1 3

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Problems Javadoc Coverage Console

<terminated> Prog4 [Java Application] C:\Users\19255\Desktop\jdk-13.0.2\bin\javaw.exe (Nov 29, 2021, 2:36:21 PM – 2:36:30 PM)

Input:
5 HLHLH

Output:
0 2 1 4 3

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Problems Javadoc Coverage Console

<terminated> Prog4 [Java Application] C:\Users\19255\Desktop\jdk-13.0.2\bin\javaw.exe (Nov 29, 2021, 2:37:19 PM – 2:37:36 PM)

Input:
3 LHL

Output:
1 0 2