

```
1  /* The names of the teams participating in a competition should be
2  displayed on a banner vertically, to accommodate as many teams as
3  possible in a single banner. Design a program to accept the names
4  of N teams, where 2 < N < 9 and display them in vertical order,
5  side by side with a horizontal tab (i.e. eight spaces). */
6
7  import java.util.Scanner;
8
9  public class verticalBanners {
10     public static void main(String[] args) {
11         Scanner in = new Scanner(System.in);
12         System.out.print("ENTER THE VALUE OF N: ");
13         int n = in.nextInt();
14         in.nextLine();
15
16         if (n <= 2 || n >= 9) {
17             System.out.println("INVALID INPUT");
18             return;
19         }
20
21         String[] teams = new String[n];
22         int highLen = 0;
23
24         for (int i = 0; i < n; i++) {
25             System.out.print("Team " + (i + 1) + ": ");
26             teams[i] = in.nextLine();
27             if (teams[i].length() > highLen) {
28                 highLen = teams[i].length();
29             }
30         }
31
32         for (int i = 0; i < highLen; i++) {
33             for (int j = 0; j < n; j++) {
34                 int len = teams[j].length();
35                 if (i >= len) {
36                     System.out.print(" \t");
37                 } else {
38                     System.out.print(teams[j].charAt(i) + "\t");
39                 }
40             }
41             System.out.println();
42         }
43     }
44 }
```