11D

```java
import java.util.Scanner;
class Array11D {
    public static int getScore(double[] sc){
        int k = 0;
        System.out.print("Enter score: ");
        Scanner kdb = new Scanner(System.in);
        double score = kdb.nextDouble();
        while (score >= 0.0 && score <= 100 && k < sc.length){
            sc[k] = score;
            k++;
            System.out.print("Enter score: ");
            score = kdb.nextDouble();
        }
        return k;
    }
    public static void tallyScore(int n, int[] T, double[] sc){
        int k;
        for (int i = 0; i < n; i++){
            if (sc[i] >= 91) k = 10;
            else if (sc[i] >= 81) k = 9;
            else if (sc[i] >= 71) k = 8;
            else if (sc[i] >= 61) k = 7;
            else if (sc[i] >= 51) k = 6;
            else if (sc[i] >= 41) k = 5;
            else if (sc[i] >= 31) k = 4;
            else if (sc[i] >= 21) k = 3;
            else if (sc[i] >= 11) k = 2;
            else if (sc[i] >= 1) k = 1;
            else k = 0;
            T[k] = T[k] + 1;
        }
    }
    public static void showTally(int[] T){
        for(int k = 9; k >= 0; k--){
            if(k != 0)
                System.out.printf("%2d:  %2d - %2d   :%2d\n",k+1, (k*10)+1, (k+1)*10, T[k]);
            else
                System.out.printf("%2d:  %2d - %2d   :%2d\n",k+1, 0, 10, T[k]);
        }
    }
    public static void main(String[] args) {
        int[] T = new int[10];
        double[] score = new double[100];
        int n = getScore(score);
        tallyScore(n, T, score);
        showTally(T);
    }
}
```

```
C:\WINDOWS\system32\...
Enter score: 10
Enter score: 20
Enter score: 30
Enter score: 40
Enter score: 50
Enter score: 60
Enter score: 70
Enter score: 80
Enter score: 90
Enter score: -20
10:  91 - 100   : 1
 9:  81 - 90    : 1
 8:  71 - 80    : 1
 7:  61 - 70    : 1
 6:  51 - 60    : 1
 5:  41 - 50    : 1
 4:  31 - 40    : 1
 3:  21 - 30    : 1
 2:  11 - 20    : 1
 1:   0 - 10    : 0
Press any key to continue . . .
```

```
---------- Java Compile ----------
Picked up JAVA_TOOL_OPTIONS: -Dfile.encoding=UTF-8

Output completed (0 sec consumed) - Normal Termination
```

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class Array11D {
  public static int getScore(double[] sc) {
    int k = 0;
    System.out.print("Enter score : ");
    Scanner kbd = new Scanner(System.in);
    double score = kbd.nextDouble();
    while (score >= 0.0 && score <= 100 && k < sc.length) {
        sc[k] = score;
        k++;
        System.out.print("Enter score : ");
        score = kbd.nextDouble();
    }
    return k;
  }
  public static void tallyScore(int n, int[] T, double[] sc){
    int k;
    for (int i = 0; i < n ; i++){
      if (sc[i] >=91) k = 10;
      else if (sc[i] >= 81 ) k = 9;
      else if (sc[i] >= 71 ) k = 8;
      else if (sc[i] >= 61 ) k = 7;
      else if (sc[i] >= 51 ) k = 6;
      else if (sc[i] >= 41 ) k = 5;
      else if (sc[i] >= 31 ) k = 4;
      else if (sc[i] >= 21 ) k = 3;
      else if (sc[i] >= 11 ) k = 2;
      else if (sc[i] >= 1 ) k = 1;
      else K = 0;
      T[k] = T[k] + 1;
    }
  }
  public static void showTally(int[] T){
    for(int k = 9; k >=0 ; k--){
      if(k!=0)
        System.out.printf("%2d: %2d - %2d  :%2d\n", k+1, (k*10)+1,(k+1)*10, T[k]);
      else
        System.out.printf("%2d: %2d - %2d  :%2d\n", k+1, 0, 10, T[k]);
    }
  }
  public static void main(String[] args) {
    int[] T = new int[10];
    double[] score = new double[100];
    int n = getScore(score);
    tallyScore(n, T, score);
    showTally(T);
  }
}
```

```
10:  91 - 100  : 1
 9:  81 - 90   : 1
 8:  71 - 80   : 1
 7:  61 - 70   : 1
 6:  51 - 60   : 1
 5:  41 - 50   : 1
 4:  31 - 40   : 1
 3:  21 - 30   : 1
 2:  11 - 20   : 1
 1:   0 - 10   : 0
```