

Olympic Judging

Description

In a gymnastics or diving competition, each contestant's scores are calculated by dropping the lowest and highest scores and then adding the remaining scores. Write a program that allows a user to enter eight judges' scores and then outputs the points received by the contestant. A judge awards points between 0 and 6, with 0 being the worst technical performance and 6 being the best technical performance.

Your program should have these five static methods:

- “getInput” will request 8 scores from the user and return an array of 8 doubles. Each score should range from 0 to 6. If a score does not fit in that range, the program should ask the user to type it again.
- “sum” should take a double array as an argument and return a double, which is the sum of the values in the array.
- “max” should take a double array as an argument and return a double, which is the largest value in the array.
- “min” should take a double array as an argument and return a double, which is the smallest value in the array.
- “displayOutput” should take a double as an argument and write the output to the screen.

Example Execution of this Program

```
[jcchurch@mcart java]$ javac olympic.java
[jcchurch@mcart java]$ java olympic
Enter the 8 judging scores for this competition.
Score 1: 5.2
Score 2: 5.3
Score 3: 5.0
Score 4: 5.9
Score 5: 5.5
Score 6: 10.0
That score does not range from 0.0 to 6.0. Please enter the score again.
Score 6: 5.5
Score 7: 5.6
Score 8: 5.8
The score for this event is 32.9
[jcchurch@mcart java]$
```

Submission Instructions

Send an e-mail to jcchurch@olemiss.edu and attach your solution (the *.java file) by July 9, 2010. Your source code must contain the header information described in the Course Syllabus or points will be deducted. Programs that do not compile will not be graded.