Erratum

As the statement of problem I, Interplanetary, is written, two conflicting interpretations are possible. The correct interpretation for the problem refers to temperatures between the hottest (or coldest) $K$, regardless of the number of planets with each of those temperatures. As an example, we provide the additional test case below.

Input example

```
5 5
1 1 1 2 2
1 2 100
2 3 100
3 4 1
4 5 1
5 1 100
3
1 3 1 0
1 3 2 0
1 3 1 1
```

Output example

```
200
102
102
```

Time Limits

The time limits are given in seconds:

<table>
<thead>
<tr>
<th>Problem</th>
<th>Name</th>
<th>C/C++</th>
<th>Java</th>
<th>Kotlin</th>
<th>Python</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Artwork</td>
<td>0.1</td>
<td>0.5</td>
<td>0.5</td>
<td>1.5</td>
</tr>
<tr>
<td>B</td>
<td>Buffoon</td>
<td>0.1</td>
<td>0.5</td>
<td>0.5</td>
<td>0.1</td>
</tr>
<tr>
<td>C</td>
<td>Crossings With Danger</td>
<td>1.5</td>
<td>6.0</td>
<td>6.0</td>
<td>3.0</td>
</tr>
<tr>
<td>D</td>
<td>Denouncing Mafia</td>
<td>0.1</td>
<td>0.7</td>
<td>0.7</td>
<td>0.2</td>
</tr>
<tr>
<td>E</td>
<td>Exhibition of Clownfish</td>
<td>0.1</td>
<td>0.5</td>
<td>0.5</td>
<td>4.5</td>
</tr>
<tr>
<td>F</td>
<td>Forests in Danger</td>
<td>0.3</td>
<td>3.5</td>
<td>3.5</td>
<td>0.3</td>
</tr>
<tr>
<td>G</td>
<td>Getting Confidence</td>
<td>0.1</td>
<td>0.3</td>
<td>0.3</td>
<td>0.1</td>
</tr>
<tr>
<td>H</td>
<td>Hour for a Run</td>
<td>0.1</td>
<td>0.5</td>
<td>0.5</td>
<td>0.1</td>
</tr>
<tr>
<td>I</td>
<td>Interplanetary</td>
<td>1.5</td>
<td>4.5</td>
<td>4.5</td>
<td>1.5</td>
</tr>
<tr>
<td>J</td>
<td>Jar of Water Game</td>
<td>0.1</td>
<td>0.2</td>
<td>0.2</td>
<td>0.1</td>
</tr>
<tr>
<td>K</td>
<td>Keep Calm and Sell Balloons</td>
<td>0.1</td>
<td>0.5</td>
<td>0.5</td>
<td>0.1</td>
</tr>
<tr>
<td>L</td>
<td>Less Coin Tosses</td>
<td>0.1</td>
<td>0.3</td>
<td>0.3</td>
<td>0.1</td>
</tr>
<tr>
<td>M</td>
<td>Maratona Brasileira de Popcorn</td>
<td>0.1</td>
<td>1.0</td>
<td>1.0</td>
<td>1.5</td>
</tr>
</tbody>
</table>
Memory Limits
C,C++,Python: 1GB
Java: 1GB + 100MB stack
Kotlin: 1GB + 100MB stack

Size Limits
Source code maximum size: 100KB
Output file maximum size: 1MB

Compilation Commands
C: gcc -static -O2 -lm
C++: g++ -std=c++14 -static -O2 -lm
Java: javac
Kotlin: kotlinc

C/C++
- Your program must return 0, executing, as its last instruction, return 0 or exit(0).

Java
- Do not use ‘package’ in your Java program.
- The filename rule should be followed, this is, your main public class should be a named using a single uppercase character (A, B, C, ... M).
- The execution command for submissions using Java is: java -Xms1024m -Xmx1024m -Xss100m.

Kotlin
- Do not use ‘package’ in your Java program.
- The filename rule should be followed, this is, your main public class should be a named using a single uppercase character (A, B, C, ... M).
- The execution command for submissions using Kotlin is kotlin -J-Xms1024m -J-Xmx1024m -J-Xss100m.
- Attention: It is not guaranteed that the solutions in Kotlin will be able to execute in the established time limit.

Python
- Be careful to select the correct version of python to submit.
- Attention: It is not guaranteed that the solutions in Kotlin will be able to execute in the established time limit.