Q1:

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| --- | --- | --- | --- |
| Conditions | Valid | Invalid | Boundary Value |
| Time | 6:00 p.m.--8:00 a.m.  8:00 a.m.--6:00 p.m. | Illegal time | 6:00 p.m.  8:00 a.m. |
| Call Time | >=60  >=0,<60 | Illegal time  <0 | 60  0 |

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| --- | --- | --- | --- |
| No | Description | Input | Expected Output |
| 1 | Class: 6:00 p.m.--8:00 a.m. , >=0,<60 arbitrary value: | start time:7.00p.m.  end time:7.30p.m. | 0.24 |
| 2 | Class: 8:00 a.m.--6:00 p.m. , >=0,<60 arbitrary value: | start time:9:00 a.m.  end time:9:30 a.m. | 0.48 |
| 3 | Class: 6:00 p.m.--8:00 a.m. , >=60  arbitrary value: | start time:7.00p.m.  end time:8.30p.m. | 0.612 |
| 4 | Class: 8:00 a.m.--6:00 p.m., >=60  arbitrary value: | start time:9:00 a.m.  end time:10:30 a.m. | 0.408 |
| 5 | Classes: 6:00 p.m.--8:00 a.m. 8:00 a.m.--6:00 p.m. on boundary : | start time:6.00p.m.  end time:6.30p.m. | 0.24 |
| 6 | Classes:>=60  >=0,<60 on boundary : | start time:8:00 a.m.  end time:8:30 a.m. | 0.48 |
| 7 | Classes: 6:00 p.m.--8:00 a.m. 8:00 a.m.--6:00 p.m. below and above: | start time:5.59p.m.  end time:6.29p.m. | 0.48 |
| 8 | Classes:>=60  >=0,<60 below and above: | start time:8:00 a.m.  end time:9:00 a.m. | 0.96 |

Q2:

a:the length of first input

b:the length of first input

c:the length of first input

|  |  |  |  |
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| Conditions | Valid | Invalid | Boundary Value |
| Input number | Number | Decimals and characters and so on | 3,4,5 |
| length | >=1 <=99 | <1  >99 | 1,99 |
| Satisfy the rule of making up TRIANGLE | a+b>c &&  c+b>a &&  a+c>b | a+b<c or  c+b<a or  a+c<b | a+b=c or  c+b=a or  a+c=b |

|  |  |  |  |
| --- | --- | --- | --- |
| No | Description | Input | Expected Output |
| 1 | Class:Number >=1 <=99 a+b>c &&  c+b>a &&  a+c>b arbitrary value: | 3,4,5 | SCALENE |
| 2 | Class:Number >=1 <=99 a+b>c &&  c+b>a &&  a+c>b on boundary : | 1,1,1 | EQUILATERAL |
| 3 | Class:Number >=1 <=99 a+b>c &&  c+b>a &&  a+c>b on boundary : | 1,2,3 | NOT A TRIANGLE |
| 4 | Class:Number >=1 <=99 a+b>c &&  c+b>a &&  a+c>b below and above: | 100,77,66 | INVALID INPUT |
| 5 | Class:Number >=1 <=99 a+b>c &&  c+b>a &&  a+c>b below and above: | 3,3,8 | NOT A TRIANGLE |