**第二次测试**

**Equivalence Class Table**

**PS:Set the first input to a , the second input to b and output is c**

**a = ticket number, b = time, c = price**

**For example [a,b],[1,8:00], a=1; b=8:00**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Domain | Condition | Valid EC | ID | Invalid EC | ID |
| Input domain | Input 2 parameters | 2 parameters | 1 | Input nothing | 14 |
| Only input a | 15 |
| Only input b | 16 |
| Input 3 or more parameters | 17 |
| a is an integer | Number | 2 | a is not a number | 18 |
| Integer | 3 | a is not an integer | 19 |
| Positive number | 4 | a is not a positive number | 20 |
| a is not more than 10 | a<=10 | 5 | a>10 | 21 |
| b is a time | time | 6 | b is not a time | 22 |
| Hour range | 0~23 | 7 | <0 | 23 |
| >23 | 24 |
| Minute range | 00~59 | 8 | <00 | 25 |
| >59 | 26 |
| Output domain | c is an integer | Number | 9 | c is not a number | 27 |
| Integer | 10 | c is not an integer | 28 |
| Positive number | 11 | c is not a positive number | 29 |
| c = 10a | b between 7:00 and 9:30 or 16:00 and 19:30 | 12 | 0:00<=b <=7:00 | 30 |
| 9:30<=b<=16:00 | 31 |
| 19:30<=b<=23:59 | 32 |
| c = 8a | b between 9:30 and 16:00 or after 21:30 | 13 | 7:00<b<9:30 | 33 |
| 16:00<b<21:30或  16:00<b<19:30 | 34 |

|  |  |  |  |
| --- | --- | --- | --- |
| No. | Input | Expected output | EC covered |
| 1 | [1,800] | 10 dollars | 1~12 |
| 2 | [2,10:00] | 16 dollars | 1~11,13 |
| 3 | [] | invalid | 14 |
| 4 | [1,] | invalid | 15 |
| 5 | [,8:00] | invalid | 16 |
| 6 | [1,8:00,2] | invalid | 17 |
| 7 | [a,8:00] | invalid | 18 |
| 8 | [1.1,8:00] | invalid | 19 |
| 9 | [-1,8:00] | invalid | 20 |
| 10 | [0,8:00] | invalid | 20 |
| 11 | [11,8:00] | invalid | 21 |
| 12 | [1,8] | invalid | 22 |
| 13 | [1,-8:00] | invalid | 23 |
| 14 | [6:24:00] | invalid | 24 |
| 15 | [6:8:-10] | invalid | 25 |
| 16 | [6:23:60] | invalid | 26 |

**Boundary Value Analysis**

Ticket number

min = 1, min+ = 2, max- = 9, max = 10, nom = 6

Time

min = 0:00, min+ = 0:01, max- = 23:58, max = 23:59, nom = 12:00

**9 test cases:**

[1, 12:00], [2, 12:00], [9, 12:00], [10, 12:00],

[6, 0:00], [6, 0:01], [6, 23:58], [6, 23:59],

[6, 12:00]

|  |  |  |
| --- | --- | --- |
| No. | Input | Expected output |
| 1 | [1, 12:00] | 8 dollars |
| 2 | [2, 12:00], | 16 dollars |
| 3 | [9, 12:00] | 72 dollars |
| 4 | [10, 12:00] | 80 dollars |
| 5 | [6, 0:00] | 48dollars |
| 6 | [6, 0:01] | 48 dollars |
| 7 | [6, 23:58] | 48 dollars |
| 8 | [6, 23:59] | 48 dollars |
| 9 | [6, 12:00] | 48 dollars |

**Questions**

1. Prices between 19:30 and 21:30 are not clearly stated and are considered to be 20%off-fare according to actual demand.
2. There is no clear date as to whether today's ticket will continue to be valid tomorrow.