Marking Guide for J1 - Trident

Award three points for each test case that is correctly solved.

Test Case 1
Enter tine length: 2
Enter tine spacing: 3
Enter handle length: 4
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Test Case 2
Enter tine length: 4
Enter tine spacing: 3
Enter handle length: 2
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Test Case 3
Enter tine length: 1
Enter tine spacing: 5
Enter handle length: 1
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Test Case 4
Enter tine length: 
   10
Enter tine spacing: 
   10
Enter handle length: 
   10
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Marking Guide for J2 - Picture Perfect

Award three points for each test case that is correctly solved.

Note: the dimensions of the rectangle may be printed in any order. For example, both "6 x 10" and "10 x 6" are acceptable for the first test case.

Enter number of pictures:
60
Minimum perimeter is 32 with dimensions 6 x 10

Enter number of pictures:
100
Minimum perimeter is 40 with dimensions 10 x 10

Enter number of pictures:
23
Minimum perimeter is 48 with dimensions 1 x 23

Enter number of pictures:
1
Minimum perimeter is 4 with dimensions 1 x 1

Enter number of pictures:
64507
Minimum perimeter is 1016 with dimensions 251 x 257

Enter number of pictures:
0
Marking Guide for J3/S1 - Snakes and Ladders

Test Case 1

Award one point for each correct step. (10 points in total)

Enter sum of dice:
  10
You are now on square 11
Enter sum of dice:
  8
You are now on square 19
Enter sum of dice:
  11
You are now on square 30
Enter sum of dice:
  10
You are now on square 64
Enter sum of dice:
  3
You are now on square 86
Enter sum of dice:
  5
You are now on square 91
Enter sum of dice:
  8
You are now on square 77
Enter sum of dice:
  12
You are now on square 89
Enter sum of dice:
  12
You are now on square 89
Enter sum of dice:
  11
You are now on square 100
You Win!
**Test Case 2**

Award one point for each correct step, including "You Quit!". (5 points in total)

Enter sum of dice: 
   8
You are now on square 34
Enter sum of dice: 
   11
You are now on square 45
Enter sum of dice: 
   9
You are now on square 19
Enter sum of dice: 
   4
You are now on square 23
Enter sum of dice: 
   0
You Quit!
Marking Guide for J4/S2 - Poetry

Award one point for each correct line. (15 points in total)

**Test Case 1** (File: POETRY1.IN)
perfect

**Test Case 2** (File: POETRY2.IN)
free
even
cross
perfect

**Test Case 3** (File: POETRY3.IN)
perfect
free
perfect
perfect
shell

**Test Case 4** (File: POETRY4.IN)
cross
perfect
shell
even
perfect
Marking Guide for J5/S3 - Floor Plan

Award three points for each correct line. (15 points in total)

Test Case 1 (File: FLOOR1.IN)
5 rooms, 0 square metres left over

Test Case 2 (File: FLOOR2.IN)
0 rooms, 3 square metres left over

Test Case 3 (File: FLOOR2.IN)
5 rooms, 2 square metres left over

Test Case 4 (File: FLOOR2.IN)
1 room, 1 square metre left over

Test Case 5 (File: FLOOR2.IN)
5 rooms, 809 square metres left over
Marking Guide for S4 - Substrings

For test cases 1, 2, and 3, award one point for each correct line. (7 points in total)

Test Case 1  (File: SUBSTR1.IN)
2
15
5
8
11

Test Case 2  (File: SUBSTR2.IN)
499028

Test Case 3  (File: SUBSTR3.IN)
424321

For test cases 4 and 5, award two points for each correct line. (8 points in total)

Test Case 4  (File: SUBSTR4.IN)
1001
499034

Test Case 5  (File: SUBSTR5.IN)
2998
3995
Marking Guide for S5 - Trucking Trouble

Award three points for each correct line. (15 points in total)

**Test Case 1**  (File: TRUCK1.IN)  
100

**Test Case 2**  (File: TRUCK2.IN)  
299

**Test Case 3**  (File: TRUCK3.IN)  
3800

**Test Case 4**  (File: TRUCK4.IN)  
55510

**Test Case 5**  (File: TRUCK5.IN)  
0