

**CISS240: Introduction to Programming**  
**Quiz q1103**

Name: \_\_\_\_\_

Score: 

Q1. Write a program that prints solutions to the  $x^3 + 2y^3 = nz^3$  where  $n$  is an integer input from the user and  $x, y, z$  are integers in the interval  $[-10, 10]$ . After the solutions are printed, the number of solutions is printed. (There's a typo in the above. The equation should be  $x^3 + 3y^3 = nz^3$ . But if you have already submitted using the equation  $x^3 + 2y^3 = nz^3$ , you need not change your submission.) Here's a test case:

```
5
-10 5 -5
-8 4 -4
-6 3 -3
-4 2 -2
-2 1 -1
0 0 0
2 -1 1
4 -2 2
6 -3 3
8 -4 4
10 -5 5
11
```

ANSWER:

Q2. Write an ASCII art program that does the following. 3 test cases are shown.

```
3
 *
 *
 *
```

```
4
  *
 *
 *
 *
```

5

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\*  
\*  
\*  
\*

ANSWER: