

CS 111

Nested Loops

Example 1

- Goal: Generate this shape

Example 2

- Goal: Generate this shape

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Example 3

- Goal: Generate this shape

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Example 4

- Goal: Generate a multiplication table

1 2 3 4 5

2 4 6 8 10

3 6 9 12 15

4 8 12 16 20

5 10 15 20 25

Example 5

- Goal: Generate rows summing the integers from 1 to n as follows:

$$1 = 1$$

$$1 + 2 = 3$$

$$1 + 2 + 3 = 6$$

...

Example 6

- Goal: Generate rows summing the odd numbers as follows:

$$1 = 1$$

$$1 + 3 = 4$$

$$1 + 5 + 7 = 9$$

...