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Programming Assignment

The following lecture notebooks should help with completing the programming assignment. Please review them.

[Counting Notebook](#)

[Permutations and Combinations Notebook](#)

[Download Assignment Here](#)

compositions

1 point possible (graded)

What is the python output for the following command: `compositions(2, 5)`

- ☐ $\{(4, 1), (3, 2), (2, 3), (1, 4)\}$
- ☒ $\{(1, 4), (2, 3), (3, 2), (4, 1)\}$ ✓
- ☐ $\{(1, 1, 3), (1, 2, 2), (1, 3, 1), (2, 1, 2), (2, 2, 1), (3, 1, 1)\}$
- ☐ $\{(3, 1, 1), (2, 2, 1), (2, 1, 2), (1, 3, 1), (1, 2, 2), (1, 1, 3)\}$

Submit

You have used 0 of 2 attempts

i Answers are displayed within the problem

composition_formula

1 point possible (graded)

What is the python output for the following command: `composition_formula(9, 16)`

☐ (4773, 4773)

☐ (5426, 5426)

☒ (6435, 6435) ✓

☐ (7962, 7962)

Submit

You have used 0 of 2 attempts

i Answers are displayed within the problem

composition_formula

1 point possible (graded)

What is the python output for the following command:

`constrained_compositions(8, [3,2,4])`

☒ {(2, 2, 4), (3, 1, 4), (3, 2, 3)} ✓

☐ {(3, 2, 3), (3, 1, 4), (2, 2, 4)}

☐ {(2, 3, 4), (3, 2, 4), (3, 3, 3)}

☐ $\{(3, 3, 3), (3, 2, 4), (2, 3, 4)\}$

Submit

You have used 0 of 2 attempts

i Answers are displayed within the problem

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