

Pixar's *Inside Out* Movie

- Pixar is working on an upcoming movie which requires large crowds of dinosaurs.

- If you have 3 different heads, 3 different tails and 2 different bodies how many different dinosaurs could you make?

- If you have 3 different heads, 2 different tails, 1 body and 2 different pairs of arms how many different dinosaurs could you make?

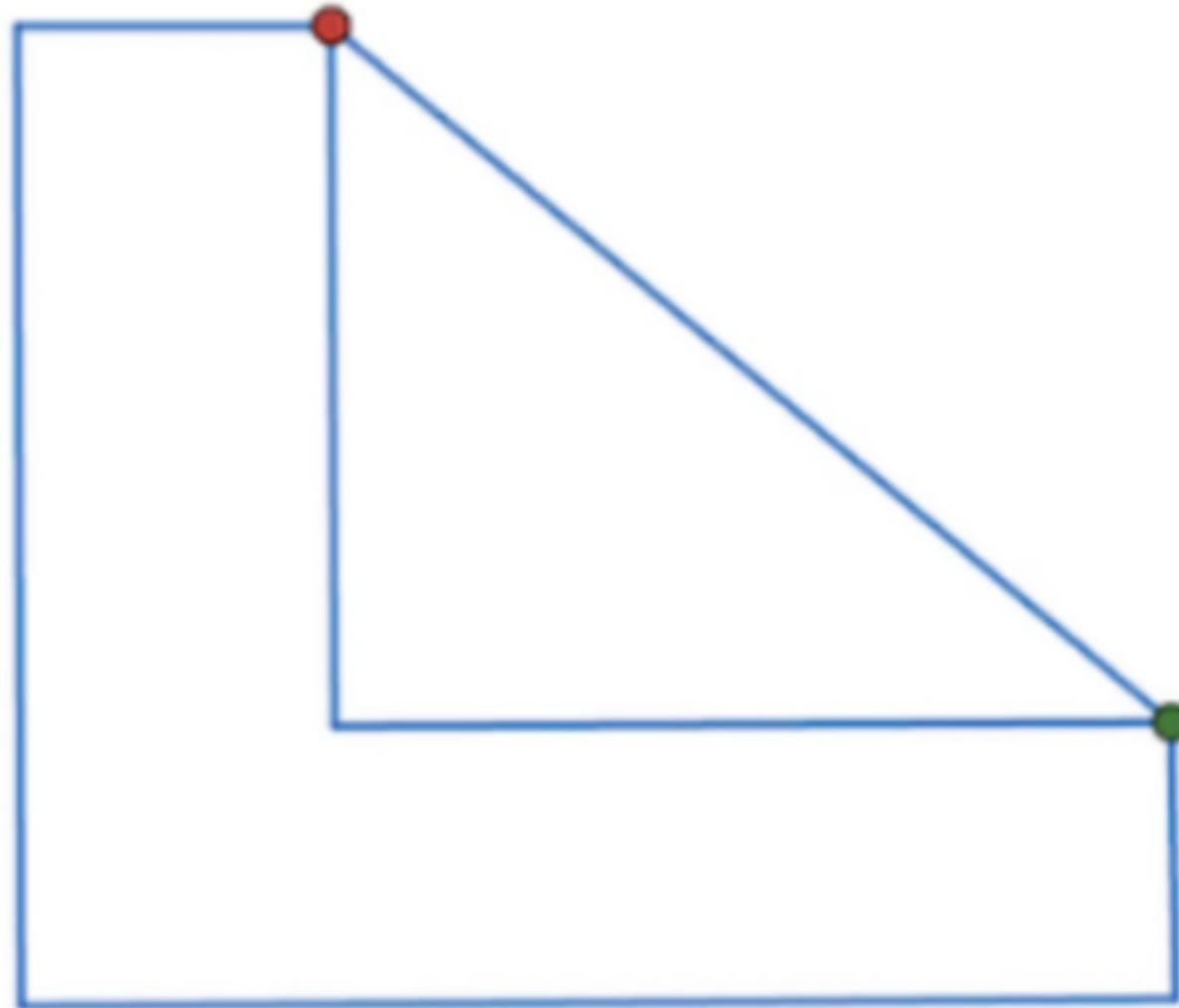
- The director has requested enough parts so that exactly **1000** different dinosaurs can be made. Each dinosaur should be made out of exactly 5 parts: head, body, arm pair, leg pair & tail. No more, no less. Remember, a dinosaur is said to be **different** if at least one body part is different.

- If the total number of parts to be rendered determines the cost of production, who has the lowest cost?

Pixar's Dinosaur Movie

- Pixar is working on an upcoming movie which requires large crowds of dinosaurs.
- If you have 3 different heads, 3 different tails and 2 different bodies how many different dinosaurs could you make?
- If you have 3 different heads, 2 different tails, 1 body and 2 different pairs of arms how many different dinosaurs could you make?
- The director has requested enough parts so that exactly **1000** different dinosaurs can be made. Each dinosaur should be made out of exactly 5 parts: head, body, arm pair, leg pair & tail. No more, no less. Remember, a dinosaur is said to be **different** if at least one body part is different.
- If the total number of parts to be rendered determines the cost of production, who has the lowest cost?

Counting Paths



If you start from the red dot, how many ways are there to get to the green dot if you're not allowed to revisit any blue lines?