



Heavy egg



Beavster the beaver has nine chocolate eggs. Eight of the eggs weigh the same, but the remaining egg is heavier than the others. Beavster wants to identify which egg is the heavy one.

Beavster owns a pair of scales that he can use to compare the weights of the eggs. The scales are large enough that he can place any number of eggs on each side of the scales.



Beavster performs a *comparison* by placing eggs on both sides of his scales to see which side is heavier.

QUESTION

How many comparisons must Beavster perform to guarantee that he can always identify the heavy egg?

- A. 2
- B. 3
- C. 4
- D. 5

