



Easter island egg



Captain Rapa is looking for a buried golden egg on Mini Easter Island. The island is divided into 16 regions, each marked with a letter from *A* through *P* as shown.



Captain Rapa can enter any amount of regions into a special device and the device will tell her whether or not the egg is in one of those regions. For example, if she enters regions *A*, *C*, and *D* into the device and the device shows “no”, then the egg is not in regions *A*, *C*, or *D*. When she enters all regions *A* through *P* into the device, the device shows “yes”, indicating that the egg is in one of those regions.

QUESTION

What is the minimum number of times Captain Rapa needs to use the device to know for sure which region contains the egg?

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|----|----|----|----|
| A. | B. | C. | D. |
| 3 | 4 | 5 | 6 |

