458. Poor Pigs

👍 232   👎 538   ♡   ▾

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⤢ Pick One (/problems/random-one-question/)

Difficulty: Easy

Total Accepted: 12.7K

Total Submissions: 29K

Contributor:
yuhaowang001 (/yuhaowang001/)

There are 1000 buckets, one and only one of them contains poison, the rest are filled with water. They all look the same. If a pig drinks that poison it will die within 15 minutes. What is the minimum amount of pigs you need to figure out which bucket contains the poison within one hour.

Answer this question, and write an algorithm for the follow-up general case.

Follow-up:

If there are n buckets and a pig drinking poison will die within m minutes, how many pigs (x) you need to figure out the "poison" bucket within p minutes? There is exact one bucket with poison.

Companies ❶ ▾

Seen this question in a real interview before? Yes No   ⊗

❷ C++   ▾   ⟨⟩ ⟳ >_ ⚙

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☐ **Custom Testcase** (**Contribute** ❶)   ❷ ▶ Run Code   ☁ Submit Solution

Submission Result: **Accepted** (/submissions/detail/181964903/) ❓   More Details ❯ (/submissions/detail/181964903/)

Next challenges: (Meeting Rooms II (/problems/meeting-rooms-ii)) (Total Hamming Distance (/problems/total-hamming-distance)) (Average of Levels in Binary Tree (/problems/average-of-levels-in-binary-tree))

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