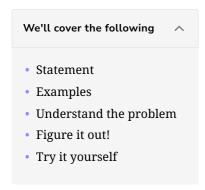
Find Median from a Data Stream

Try to solve the Find Median from a Data Stream problem.



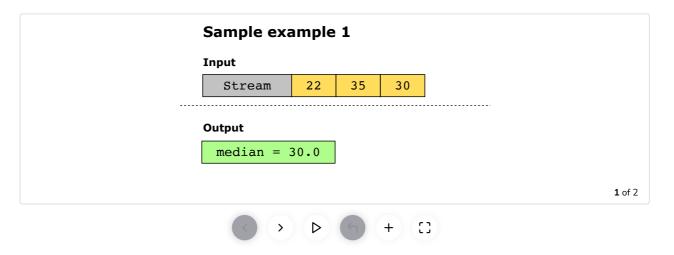
Statement

Implement a data structure that'll store a dynamically growing list of integers and provide access to their median in O(1).

Constraints:

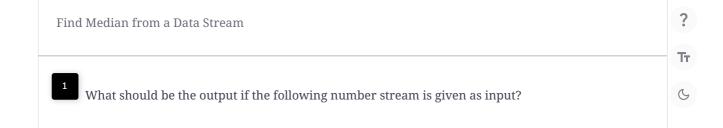
- $-10^5 \le \text{num} \le 10^5$, where num is an integer received from the data stream.
- There will be at least one element in the data structure before the median is computed.
- At most, 5×10^4 calls will be made to the function that calculates the median.

Examples



Understand the problem

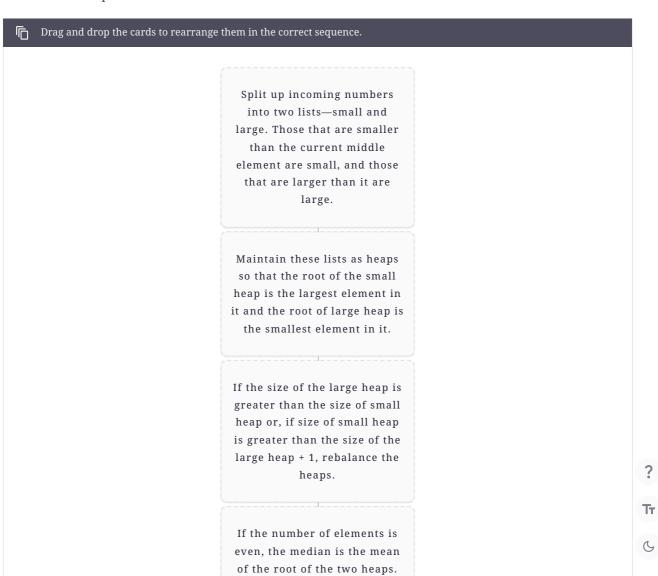
Take a moment to make sure you've correctly understood the problem. The quiz below will help you check if you're solving the correct problem:

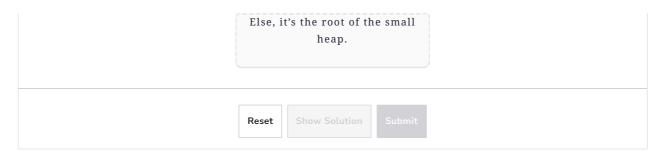


[12, 14, 36, 54]	
A) 25.0	
B) 29.0	
c) 36.0	
D) 14.0	
	Submit Answer
	Question 1 of 3 O attempted
	Reset Quiz C

Figure it out!

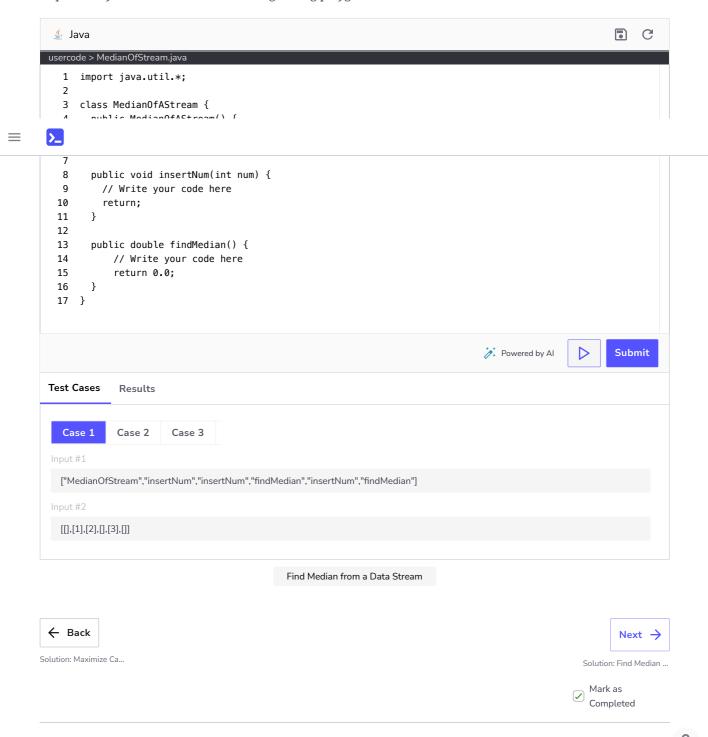
We have a game for you to play. Rearrange the logical building blocks to develop a clearer understanding of how to solve this problem.





Try it yourself

Implement your solution in the following coding playground:



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C

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