ALL	✓ Saved!
1	
-	2. (Math Question) Largest 32-bit Unsigned Integer
2	What is the largest number representable by a 32-bit unsigned integer?
3	Pick ONE option
4	(2^32)-1
5	(2^31)-1
6	. 0 2^32
7	O 2^31
8	Clear Selection
9	

4. (Math Question) Circular Track Intersection

Alex, Beth and Charlie start running simultaneously from point P, Q and R respectively on a circular track.

The distance between any two of the three points P, Q and R is L.

The ratio of the speeds of Alex, Beth and Charlie are 1:2:3.

If Alex and Beth run in opposite directions while Beth and Charlie run in the same direction, what is the distance run by Alex before Alex, Beth and Charlie meet for the 3rd time?

10L

Alex, Beth and Charlie never meet

40/3 L

12L

Clear Selection

9

ALL



1

2

3

4

5

1. (Math Question) Probability for a Dice Roll

Two dice are thrown. What is the probability that the sum of the numbers appearing on the two dice is 8, if 3 appears on the first?

0 1/36

1/5

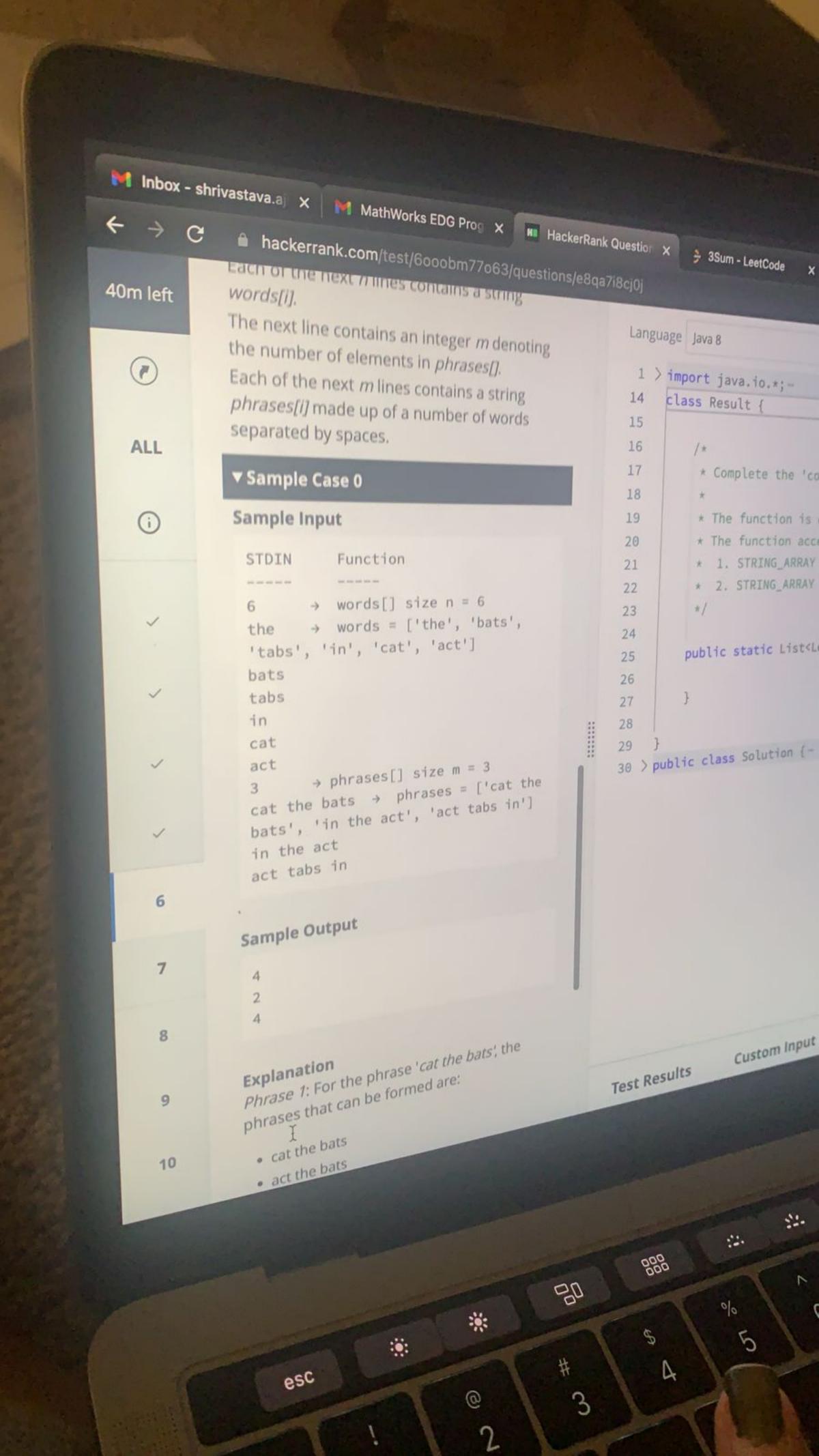
0 1/6

5/36

Clear Selection

A

ft -1-0da/18C10! Language 6. Fun Anagrams 32 33 Pranav is fond of words. He has two lists: a list of 34 35 words called words, and a list of phrases called 36 phrases. 37 From the list of words, he wants to figure out 38 which words are anagrams (see note below). 39 Then, he wants to figure out how many different 40 phrases he can make by replacing any anagram * } 41 word with one of its corresponding anagrams in 42 * long the list of phrases. 43 44 Note: In this context, an Anagram is a word 45 formed by rearranging the letters of another 46 word. Both such words are said to be anagrams 47 fo of each other. E.g. "west" and "stew". 48 49 Solve question 6 'has', 'stew', 'good', 'it'] reti phrases = ['west has good stew', 'good stew'] 52 From the list words, west is an anagram of stew. 54 These two words can be replaced with their 11/ long* countA 55 anagrams in the phrases list. The SIX phrases that int* result 6 56 57 can be created are: 58 7 60 > int main() - west has good stew west has good west stew has good west 8 Test Results stew has good stew good stew 9 good west 10 밍



- 1 s m s 1000 Cacil Word \s 20
- 3 ≤ words in a phrase ≤ 20

▶ Input Format For Custom Testing

▼ Sample Case 0

Sample Input

STDIN

LL

STDIN Function				
6 → words[] size n = 6				
the > words = ['the', 'bats',				
'tabs', 'in', 'cat', 'act']				
bats				
tabs				
in				
cat				
act				
<pre>3 → phrases[] size m = 3</pre>				
cat the bats > phrases = ['cat the				
bats', 'in the act', 'act tabs in']				
in the act				
act tabs in				

Sample Output

4	
2	
4	

Phrase 1: For the phrase 'cat the bats', the phrases that can be formed are:

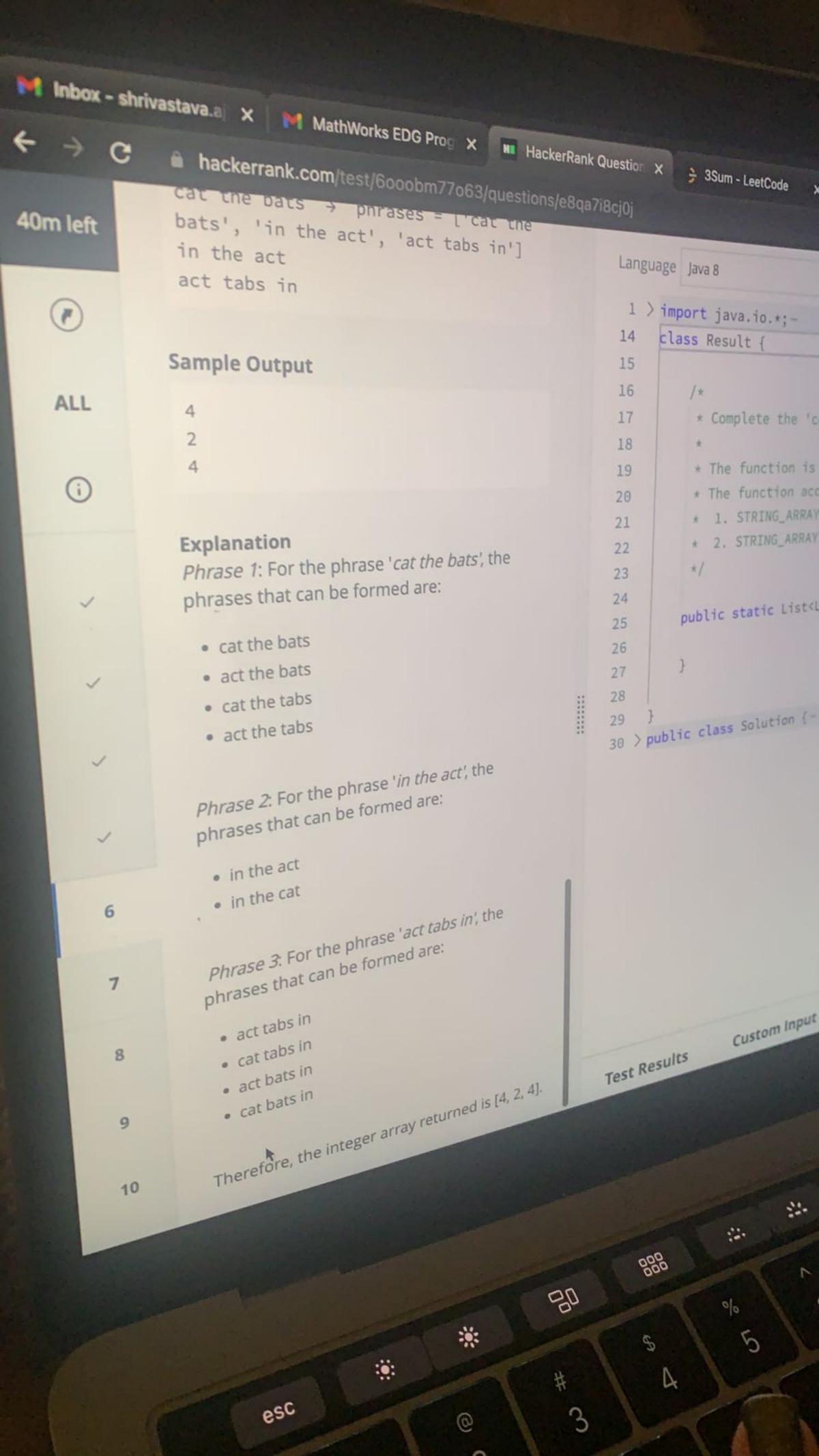
long* int* re

Test Results

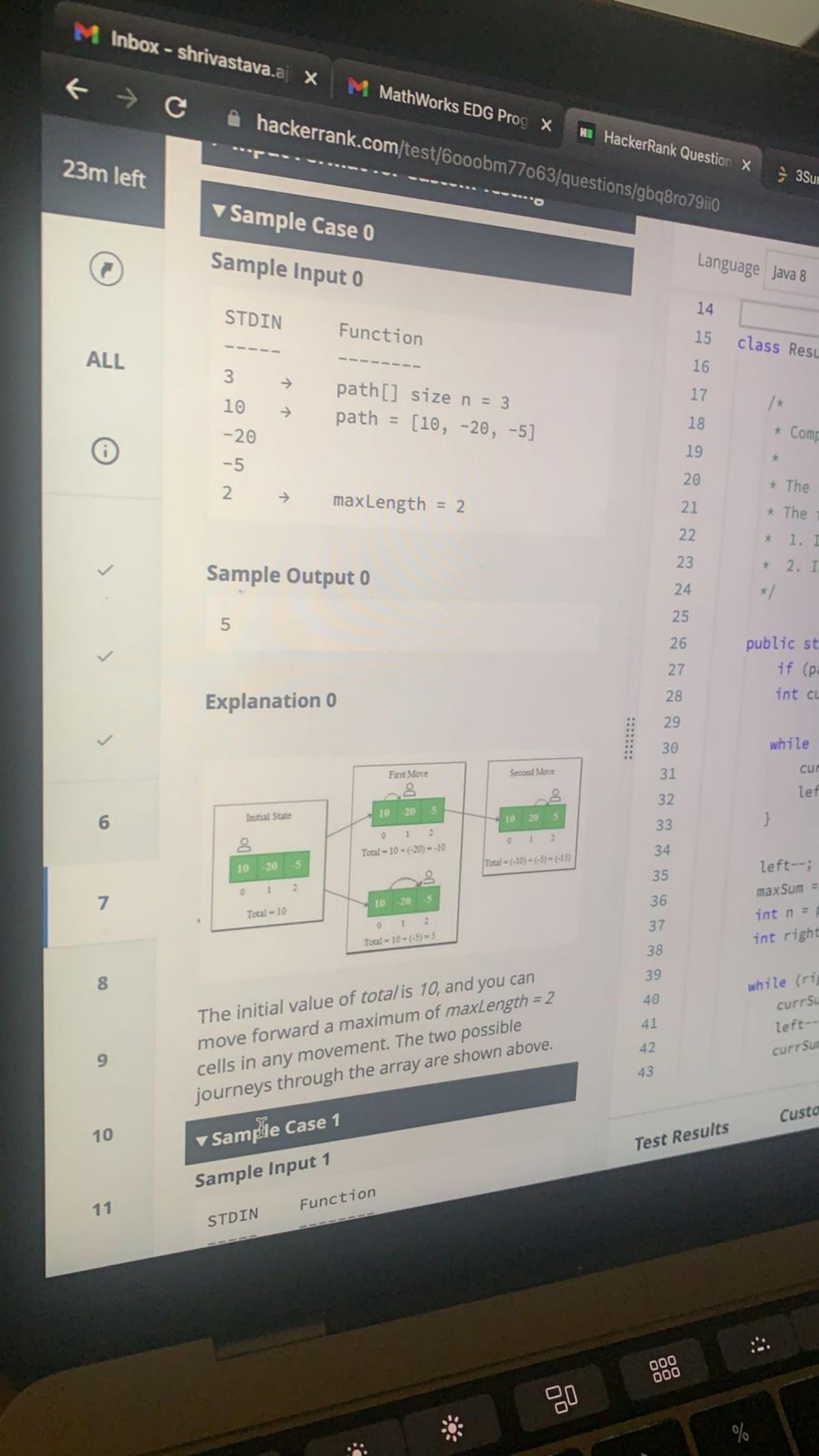








```
1 > #include <assert.h>...
19
20
      * Complete the 'maxSumLeftToRight' function below.
21
22
      * The function is expected to return a LONG_INTEGER.
23
      * The function accepts following parameters:
24
      * 1. INTEGER_ARRAY path
25
      * 2. INTEGER maxLength
26
      */
27
      long maxSumLeftToRight(int path_count, int* path, int maxLength) {
 28
 29
 30
 31
 32
 33 > int main() --
                                                                                 Run Tes
                                                                    Run Code
                     Custom Input
   Test Results
```



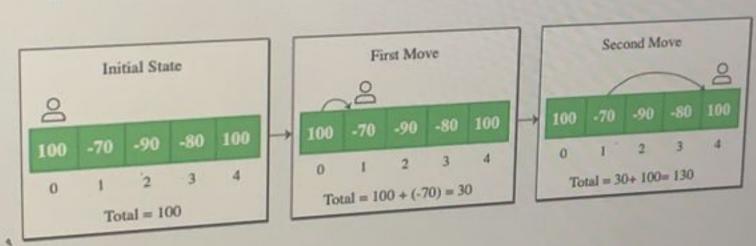
Sample Input 1

. - - use I

STDIN		Function path[] size n = 5 path = [100, -70, -90, -80,
5 100	→	
100] -70 -90 -80		
100	→	maxLength = 3

Sample Output 1

Explanation 1



The initial value of *total* is *100*, and you can move forward a maximum of *maxLength* = *3* cells in any movement. The optimal journey is shown above.

The maximum possible value of total = path[0]+ path[1] + path[4] = 100 + -70 + 100 = 130.

▶ Sample Case 2

Test Results

Langu