

CodeCheck Report: training72AE76-5HE

Test Name:

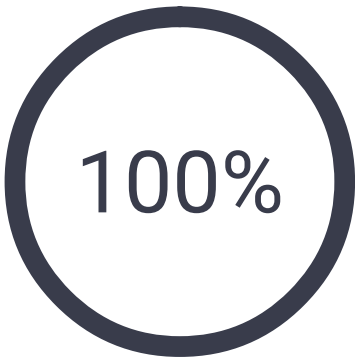
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Summary Timeline  AI Assistant Transcript

Tasks summary

Task	Time spent	Score
ThreeLetters C#	2 min	100%

Total score



Tasks Details

Medium	1. ThreeLetters Given two integers A and B, return a string which contains A letters "a" and B letters "b" with no three consecutive letters being the same.	Task Score	Correctness	Performance	
		100%	100%	100%	Not assessed



Task description

Write a function `solution` that, given two integers A and B, returns a string containing exactly A letters 'a' and exactly B letters 'b' with no three consecutive letters being the same (in other words, neither "aaa" nor "bbb" may occur in the returned string).

Examples:

- 1. Given A = 5 and B = 3, your function may return "aabaabab". Note that "abaabbaa" would also be a correct answer. Your function may return any correct answer.
- 2. Given A = 3 and B = 3, your function should return "ababab", "aababb", "abaabb" or any of several other strings.
- 3. Given A = 1 and B = 4, your function should return "bbabb", which is the only correct answer in this case.

Solution

Programming language used:			C#
Total time used:	2 minutes		
Effective time used:	2 minutes		
Notes:	not defined yet		

Task timeline



Assume that:

- A and B are integers within the range [0..100];
- at least one solution exists for the given A and B.

In your solution, focus on **correctness**. The performance of your solution will not be the focus of the assessment.

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02:19:05

02:20:18

Code: 02:20:18 UTC, cs, final,
score: 100

[show code in pop-up](#)

```
1  using System;
2  using System.Text;
3  // you can also use other imports, for example:
4  // using System.Collections.Generic;
5
6  // you can write to stdout for debugging purposes,
7  // Console.WriteLine("this is a debug message");
8
9  class Solution {
10     public string solution(int A, int B) {
11         // Implement your solution here
12         StringBuilder stringBuilder = new StringBui
13         int remainingAs = A;
14         int remainingBs = B;
15         int consecutiveAsCounter = 0;
16         int consecutiveBsCounter = 0;
17
18         for (int i = 0; i < A+B; i++)
19         {
20             if(remainingAs > remainingBs && consecu
21             {
22                 stringBuilder.Append("a");
23                 remainingAs--;
24                 consecutiveAsCounter++;
25                 consecutiveBsCounter = 0;
26                 continue;
27             }
28
29             if (remainingBs > remainingAs && consec
30             {
31                 stringBuilder.Append("b");
32                 remainingBs--;
33                 consecutiveBsCounter++;
34                 consecutiveAsCounter = 0;
35                 continue;
36             }
37
38             if (consecutiveBsCounter == 2)
39             {
40                 stringBuilder.Append("a");
41                 remainingAs--;
42                 consecutiveAsCounter++;
43                 consecutiveBsCounter = 0;
44                 continue;
45             }
46
47             if (consecutiveAsCounter == 2)
48             {
49                 stringBuilder.Append("b");
50                 remainingBs--;
51                 consecutiveBsCounter++;
52                 consecutiveAsCounter = 0;
53                 continue;
54             }
55
56             if (consecutiveAsCounter >= consecutive
57             {
58                 stringBuilder.Append("a");
59                 remainingAs--;
60                 consecutiveAsCounter++;
61                 consecutiveBsCounter = 0;
62                 continue;
63             }
64             else
65             {
66                 stringBuilder.Append("b");
67                 remainingBs--;
```

```

68         consecutiveBsCounter++;
69         consecutiveAsCounter = 0;
70         continue;
71     }
72 }
73
74     return stringBuilder.ToString();
75 }
76 }

```

Analysis summary

The solution obtained perfect score.

Analysis

expand all	Example tests
▶ example1	✓ OK
first example from the problem statement	
▶ example2	✓ OK
second example from the problem statement	
▶ example3	✓ OK
third example from the problem statement	
expand all	Correctness tests
▶ zero	✓ OK
A == 0 or B == 0	
▶ simple	✓ OK
simple and very small tests	
▶ a_equals_b	✓ OK
A == B	
▶ a_almost_equals_b	✓ OK
A - B <= 2	
▶ a_greater_than_b	✓ OK
A > B	
▶ b_greater_than_a	✓ OK
B > A	
▶ almost_only_one_solution	✓ OK
there are very few correct solutions	
▶ only_one_solution	✓ OK
there is only one correct solution	
▶ max	✓ OK
A = 100, B = 100	
▶ combinations	✓ OK
all combinations such that min(A, B) < 3	