5- Method Signature *(required time:2min)*

*this question should be answered with c#*

your colleague wrote a function to calculate something, you need to find the function in a project and you have only notepad in your machine, so you need to guess how the function look like. Write your guess, how the function “SomeCalculation” should look like (return type and method signature)?

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| --- |
| var (averageSalary, numberOfEmployee) = await **SomeCalculation**(0L, 10, 0L == 10L); |

# Answer

The return type is a tuple after *await* keyword. So, the return type must be ***Task<(a, b)>***. Where ***a*** and ***b*** are two types optionally with names. I have thought that based on the variable names provided i.e. ***averageSalary*** and ***numberOfEmployee*** the types could be float and int and maybe named the same way so the final guessed return type is ***Task<(float averageSalary, int numberOfEmployee)>***

As for the signature, the name of the function is clear. The function also has at least 3 parameters (there might be others with default values). Supplied to the first one is a long number the second one is an int and the third one is a Boolean. There might be implicit casting and this is not completely clear as well. For example, an integer can be supplied to a float requesting method and implicit conversion will happen automatically. But here I have based my guess on the minimum amount of information and decided that these types match the signature perfectly. The names of the parameters are also ambiguous and I have set a basic name for them.

Based on the explanations above and the available information the signature of the “SomeCalculation” method can be deciphered like this.

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| async Task<(float averageSalary, int numberOfEmployee)> SomeCalculation  (long param1, int param2, bool param3) |