
Multiplicator

X84546_en

Implement the function

```
int* multiply(int* in1, int* in2, int size);
```

The function receives two arrays of the given size, having integers between 0 and 9 in each position, so that the whole array represents a number. It should return a different array, allocated by the function, containing the product of the two numbers, stored in the same way than the arguments it receives. The result should contain $2 \times \text{size}$ digits, using leading zeroes when needed. Consider $1 \leq \text{size} \leq 100$.

For example, for these input arguments

```
in1 = [3, 8]
in2 = [1, 5]
size = 2
```

your function should return

```
out = [0, 5, 7, 0]
```

Observation

You only need to submit the required procedure; your main program will be ignored.

Problem information

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Generation: 2026-01-25T22:43:06.484Z

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