Problem 2806: Account Balance After Rounded Purchase

Problem Information

Difficulty: Easy
Acceptance Rate: 55.98%
Paid Only: No
Tags: Math

Problem Description

Initially, you have a bank account balance of **100** dollars.

You are given an integer `purchaseAmount` representing the amount you will spend on a purchase in dollars, in other words, its price.

When making the purchase, first the `purchaseAmount` **is rounded to the nearest multiple of 10**. Let us call this value `roundedAmount`. Then, `roundedAmount` dollars are removed from your bank account.

Return an integer denoting your final bank account balance after this purchase.

Notes:

* 0 is considered to be a multiple of 10 in this problem. * When rounding, 5 is rounded upward (5 is rounded to 10, 15 is rounded to 20, 25 to 30, and so on).

Example 1:

Input: purchaseAmount = 9

Output: 90

Explanation:

The nearest multiple of 10 to 9 is 10. So your account balance becomes 100 - 10 = 90.

Example 2:

Input: purchaseAmount = 15

Output: 80

Explanation:

The nearest multiple of 10 to 15 is 20. So your account balance becomes 100 - 20 = 80.

Example 3:

Input: purchaseAmount = 10

Output: 90

Explanation:

10 is a multiple of 10 itself. So your account balance becomes 100 - 10 = 90.

Constraints:

* `0 <= purchaseAmount <= 100`

Code Snippets

C++:

```
class Solution {
public:
int accountBalanceAfterPurchase(int purchaseAmount) {

}
};
```

Java:

```
class Solution {
public int accountBalanceAfterPurchase(int purchaseAmount) {

}
}
```

Python3:

```
class Solution:
def accountBalanceAfterPurchase(self, purchaseAmount: int) -> int:
```