## **Discounted Purchase**

Write a function that takes a purchase amount and then calculates and applies a discount:

double discount (double amount);

The discount increases depending on the amount of the customer's purchase, according to the following table:

Purchase Amount	Discount
Less than \$50.00	5%
\$50.00 up to \$100.00	10%
\$100.00 or more	15%

The function should return the discounted cost (purchase amount minus the discount).

Files We Give You: A makefile and a sample main program (discount.cpp) to test your solution. The executable file created by a successful build will be named discount.

File You Must Submit: Place your solution code in a file named solution.cpp. This will be the only file you submit.

## **Examples**

*Input:* amount = 27.99

**Returns:** 26.59

*Input:* amount = 50.00

**Returns:** 45.00

**Input:** amount = 67.99

**Returns:** 61.19

*Input:* amount = 100.00

**Returns:** 85.00

*Input:* amount = 184.27

**Returns:** 156.63