**Title**: Lab 5  
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**Description**: This program will calculate the cost of a phone call, where the first 10 minutes are a flat rate of $0.99 and then $0.10/minute after.

**Initial Algorithm**

Get the length of the call in minutes

Calculate cost of call

Display length and cost of call

**Data Requirements**:

(int) minutes – This is the length of the call in minutes.

(double) cost – This is the total cost of the call.

(int) INTRO\_TIME – This is the number of minutes included in the original flat rate.

(double) FLAT\_RATE – This is the original flat rate price for the intro period.

(double) MINUTE\_RATE – This is the cost per minute after the intro period.

(NumberFormat) currency\_format – This object holds the currency format.

(Scanner) user\_input – This is the object that holds the user’s input.

**Formulas**:

cost = FLAT\_RATE + (minutes > INTRO\_TIME)

? 0

: (INTRO\_TIME – minutes) \* MINUTE\_RATE

**Refined Algorithm**

Get the length of the call in minutes

IF minutes == 0 THEN

Display “No minutes were entered.”

ELSE

Set the cost of the call to FLAT\_RATE

IF call is longer than INTRO\_TIME THEN

Add the MINUTE\_RATE per number of minutes over to the current cost

END IF

Display the length of the call in minutes and the cost as a currency

END IF