# Task #1

A candy vending machine sells a few popular candies. 15 cents for Hershey's Kisses, 25 cents for Reese's Peanut Butter Cups, or 50 cents for snickers. Write a C program that accepts coins from the user, it accepts quarters (25 cents), dimes (10 cents), and nickels (5 cents). User will enter enters zero to stop input. Then give the user a choice for the candy selection. If the amount is sufficient, print a message and calculate the change. If the amount is not sufficient, display a message for insufficient amount and return the money.

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## Requirements

1. Assume the input will be only 0, 5, 10, or 25.
2. Use macro definitions to define constants for the amount of each candy
3. Follow the format of the examples below.

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### Example #1

Insert coins: 10

Insert coins: 10

Insert coins: 0

1 – Hershey's kisses (15 cents), 2 – Reese's Peanut Butter Cups (25 cents), 3 - Snickers (50 cents)

Enter your choice: 1

Your change is 5 cents

### Example #2

Insert coins: 10

Insert coins: 10

Insert coins: 0

1 – Hershey's kisses (15 cents), 2 – Reese's Peanut Butter Cups (25 cents), 3 - Snickers (50 cents)

Enter your choice: 4

Invalid selection, 20 cents returned

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# Task #2

In this program, we define an input to be valid if all of following conditions hold:

1. All alphabetic letters are lower case, like “c programming!”,
2. Non alphabetic letters can only be digits, white space, exclamation point, question mark, or period.

Write a program that prompts the user to enter input. The program determines if the input is a valid or invalid.

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## Requirements

1. Use **getchar()** function to read in the input. Do not use scanf.
2. **Arrays are not allowed to solve this problem.**
3. The user input ends with the user pressing the enter key (a new line character).
4. Character handling library functions in ctype.h are allowed.
5. Follow the format of the examples below.

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## Examples (your program must follow this format precisely)

Example #1

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Enter input: spring_24

invalid
```

Example #2

```
Enter input: 8 little pigs!

valid
```

Example #3

```
Enter input: Computer science?

invalid
```

Example #4

```
Enter input: the obstacle is the way.

valid
```

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