

HW03

Name: Abdulelah Al shalhoub

ID: 435105334

Q1.

1)

error, n is negative

...

2)

DESSERTS

3)

value of a: 10

value of a: 11

value of a: 12

value of a: 13

value of a: 14

value of a: 16

value of a: 17

value of a: 18

value of a: 19

4)

-3 -3

Q2.

```
#include <stdio.h>
int main(){
    char ch = getchar();
    if ( (ch >= 65) && (ch <= 90) )          /* test if ch is a capital letter */
        printf("%c is a capital letter\n", ch);
    else
        if ( (ch >= 97) && (ch <= 122) ) /* test if ch is a small letter */
            printf("%c is a small letter\n", ch);
        else
            if ( (ch >= 48) && (ch <= 57) ) /* test if ch is a digit */
                printf("%c is a digit\n", ch);
            else
                if ( (ch == 42) || (ch == 43) || (ch == 45) || (ch == 47) ) /* test if ch is an arithmetic operator
                */
                    printf("%c is an arithmetic operator\n", ch);
                else
                    printf("Unrecognized character");
    return 0;
```

Q3.

1)

Number of iterations = 9

2)

Number of iterations = 4

3)

Number of iterations = 2

4)

Number of iterations = 99

5)

Number of iterations = 8

6)

Number of iterations = 8

7)

Number of iterations = 8