Loop/Repetition Statements Lecture 4 Assignments

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```
1.  #include <stdio.h>
2
3  int main (void){
4
5    int i;
6
7    i = 1;
8    while (i <= 128){
9        printf("%d", i);
10        i *= 2;
11    }
12
13    return 0;
14
15 }</pre>
```

Output:

1248163264128

2. Letter c is not equivalent to the other two statements because the do-while loop is evaluated prior to checking the conditional expression. Hence, even if the value of i is greater than 10, the code in letter c will still run.

```
#include <stdio.h>

int main (void){

int i;

i = 11;

while (i<10){
    printf ("a) i = %d\n", i);
}

for (; i<10;){
    printf ("b) i = %d\n", i);
}

do {
    printf ("c) i = %d\n", i);
}

do {
    printf ("c) i = %d\n", i);
}

while (i<10);
return 0;
}</pre>
```

Output:

```
c) i = 11
```

Output:

1248163264128

Output:

```
Enter the exponent/power: 5
2 to the power of 5 is 32
```

```
int main (void){
int main (void){
int num, day, i;

printf ("Enter the number of days in a month: ");
scanf ("%d", %num);

if (num > 27 %% num <= 31){
    printf ("Enter the starting day of the week: ");
    scanf ("%d", %day);

//prints the spaces at the start of the calendar
for (i = 0; i < day; i++){
    printf (" ");
}

//prints the days/numbers of the calendar
for (i=1; i<=num; i++){
    printf ("%d", ");
}

//creates a new line for every week in the month
    if ((day-i-7)%7=0)
        printf("\n");
}

//if the input of the user is invalid
else {
    int num, day, i;
    int num, day, i;
    int num, i=1){
        printf ("%d", %day);

//if the input of the user is invalid
else {
    int num, day, i;
    int num, i=1){
        printf("\n");
    }

//creates a new line for every week in the month
    if ((day-i-7)%7=0)
        printf("\n");
}

//if the input of the user is invalid
else {
    int num, day, i;
    int num, iii
    int num, day, ii
    int num, iii
    int num, ii
    int num, ii
```

Output:

If the input of the user is valid:

• If the input of the user is invalid:

```
Enter the number of days in a month: 27
Invalid Input!
```