1. **Output:** 1 2 4 8 16 32 64 128
2. C.

```c
#include <stdio.h>
int main(void){
    int i;
    for(i=1; i <= 128; i *= 2){
        printf("%d ", i);
    }
    return 0;
}
```

3.

```c
#include <stdio.h>
int main() {
    int base = 2, exp;
    int result = 1;
    printf("Enter an exponent: ");
    scanf("%d", &exp);

    while (exp != 0) {
        result *= base;
        --exp;
    }
    printf("Answer = %d", result);
    return 0;
}
```

4.

```c
#include<stdio.h>
int main(){
    //Declaration of variable
    int i,noofdays, startingDay;
    //User input
    printf("Enter number of days in month:\n");
    scanf("%d",&noofdays);
    printf("Enter the starting day of the week (1=Sun, 7=Sat):\n");
    scanf("%d",&startingDay);
    //Checkers to validate whether the days entered are valid.
    if (noofdays>0 && noofdays<32 && noofdays!=27 && startingDay>0 && startingDay<8){
        for(i=1;i<startingDay;i++)
            printf("   "); //Three spaces for consistency
        //Loop for displaying the number of days in month
        for(i=1;i<=noofdays;i++){
            printf("%3d",i); //Three spaces for consistency
            if((startingDay+i-1)%7==0) //condition to move onto the next line
                printf("\n");
        }
    }
    else{
        printf("Input is invalid!\n");
    }
    return 0;
}
```

5.

Github Link: https://github.com/ainzzcutie/CMSC21.git