```
1 2 4 8 16 32 64 128
Process returned 0 (0x0) execution time : 0.072 s
Press any key to continue.
```

```
2k

10

Process returned 0 (0x0) execution time : 0.087 s

Press any key to continue.
```

3.

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

```
1 2 4 8 16 32 64 128
Process returned 0 (0x0) execution time : 0.140 s
Press any key to continue.
```

4.

```
//Prints table of powers of two

#include <stdio.h>

int main (void){ //main function

int i = 0, n, product = 1; /*declares data type and variable names

i is the power of two and should start at 0

n is the number of entries in the table

product is the result of powers of two*/

//asks for number of entries

printf("Enter number of entries in table: ");

scanf("%d", &n);

while (i<=n){ //iterates until i > n

if (i == 0){ //since any number raised to 0 is equal to 1,

printf("%5d%10d \n", i, product*1); //the program will multiply the initial product to 1

i++;

}
else{

product*=2;
printf("%5d%10d \n", i, product); //displays power of two and product

i++;
}
return 0;
}
return 0;
}
```

```
Enter number of entries in table: 10
    0
              1
    1
              2
              8
             16
    6
             64
             128
    8
             256
    9
            512
   10
           1024
Process returned 0 (0x0)
                            execution time : 14.052 s
Press any key to continue.
```

```
//Displays one month calendar
5.
                 #include <stdio.h>
                 int main (void){ //main function
                     int days, start, n; /*declares data type and variable names
                                          days for number of days in a month
                                          start for the day of the week on which the month begins
                                          n for the day of the month */
                     //ask for number of days
                     printf("Enter number of days in a month: ");
                     scanf("%d", &days);
                     if (days == 28 || days == 30 || days == 31){ //checks if input is valid
                         //asks for the start of the month if the number of days is valid
                         printf("Enter the starting day of the week (1 = Sun, 7 = Sat): ");
                         scanf("%d", &start);
                         //checks if input is valid
                         if (start >= 1 && start <=7){
                              for (n = 1; n < start; n++){
                                 printf(" "); //displays blank spaces before the start of the month
                             while (n <= days){
                                 printf("%3d", n); //displays days of the month if ((start + n - 1)%7 == 0)\frac{1}{2} //checks if one row has 7 columns
                                     printf("\n");
                              }
                         else{
                             printf("Invalid input.");
```

```
Enter number of days in a month: 31

Enter the starting day of the week (1 = Sun, 7 = Sat): 3

1 2 3 4 5

6 7 8 9 10 11 12

13 14 15 16 17 18 19

20 21 22 23 24 25 26

27 28 29 30 31

Process returned 0 (0x0) execution time : 5.364 s

Press any key to continue.
```

printf("Invalid input.");

return 0;