

```
Untitled2.c
 1 #include<stdio.h>
 2 pint main(){
        int i,n,prime,power2,number;
 4
        power2=4;
        printf("please enter your number = ");
scanf("%d",&n);
 5
 6
 7白
        while (power2<n){
                                          18.
                                                 C:\Users\majid\Desktop\HW8,9\Untitled2.exe
                                                                                         _ 0
 8
            prime=1;
                                          please enter your number = 257
3
7
31
 9
            number=power2-1;
10
            power2=power2*2;
11中
            for (i=3;i<number;i=i+2){</pre>
                if (number%i==0){
                                          127
13
                    prime=0;
14
                                          Process exited after 17.67 seconds with return value 0
15
                                          Press any key to continue . . .
16 自
            if (prime==1){
17
                printf("%d\n", number);
18
19
20
        return 0;
21 1
```

```
#include<stdio.h>
#include<math.h>
int main(){
      int i,n,prime,power2,number;
      power2=4;
      printf("please enter your number = ");
      scanf("%d",&n);
      while (power2<n){
            prime=1;
            number=power2-1;
            power2=power2*2;
            for (i=3;i<number;i=i+2){</pre>
                  if (number%i==0){
                        prime=0;
                  }
            }
            if (prime==1){
                  printf("%d\n",number);
            }
      }
      return 0;
}
```