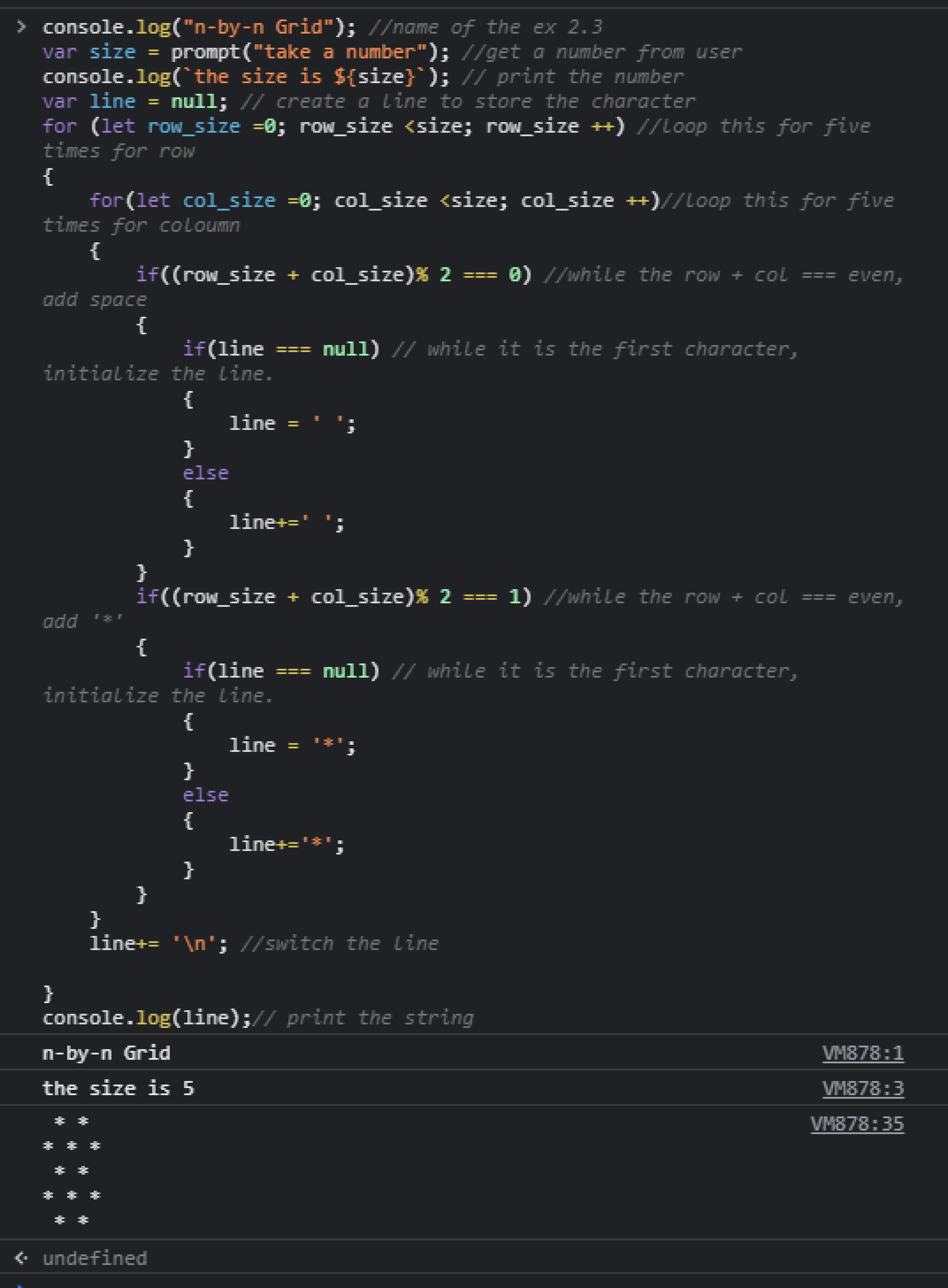
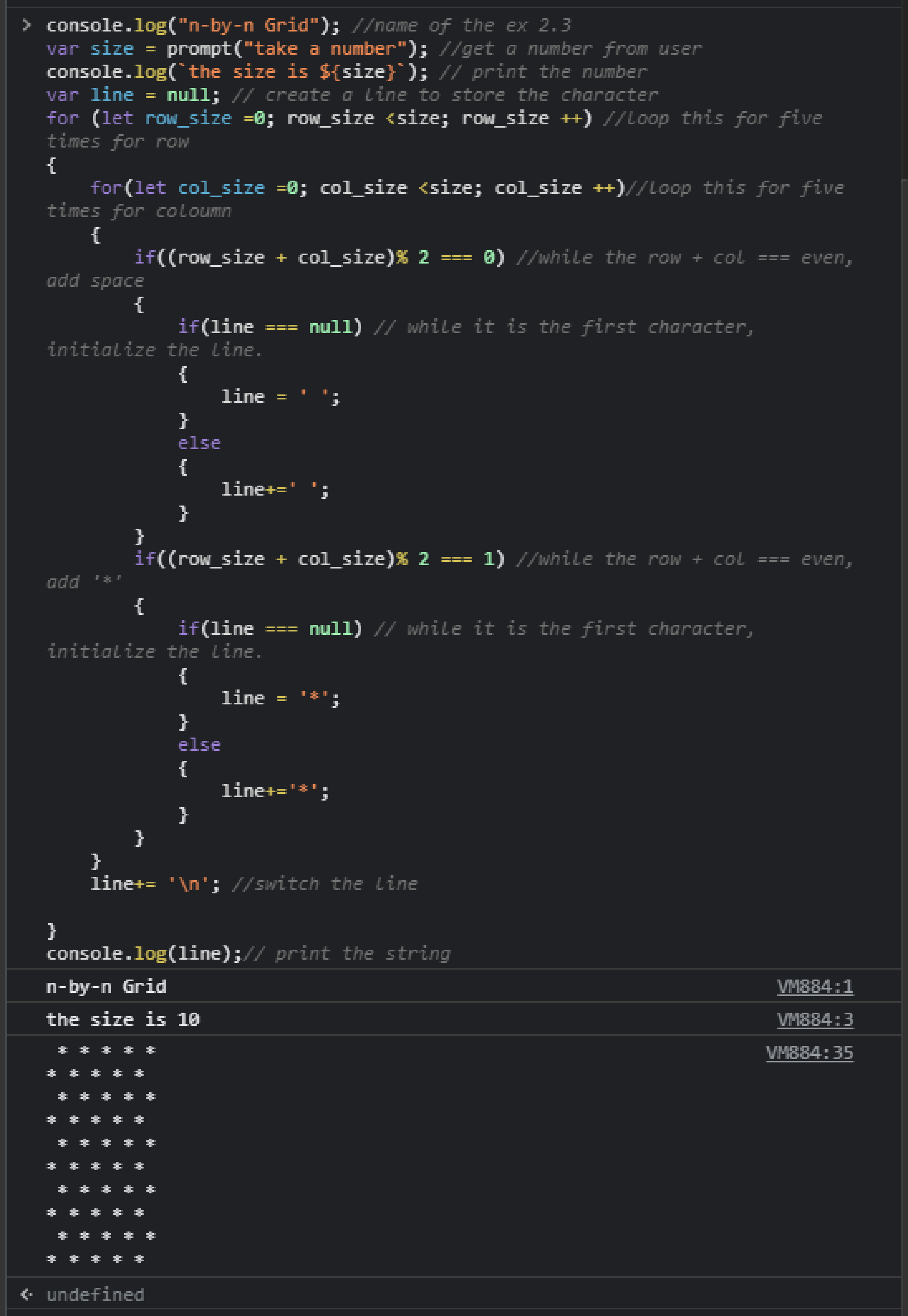


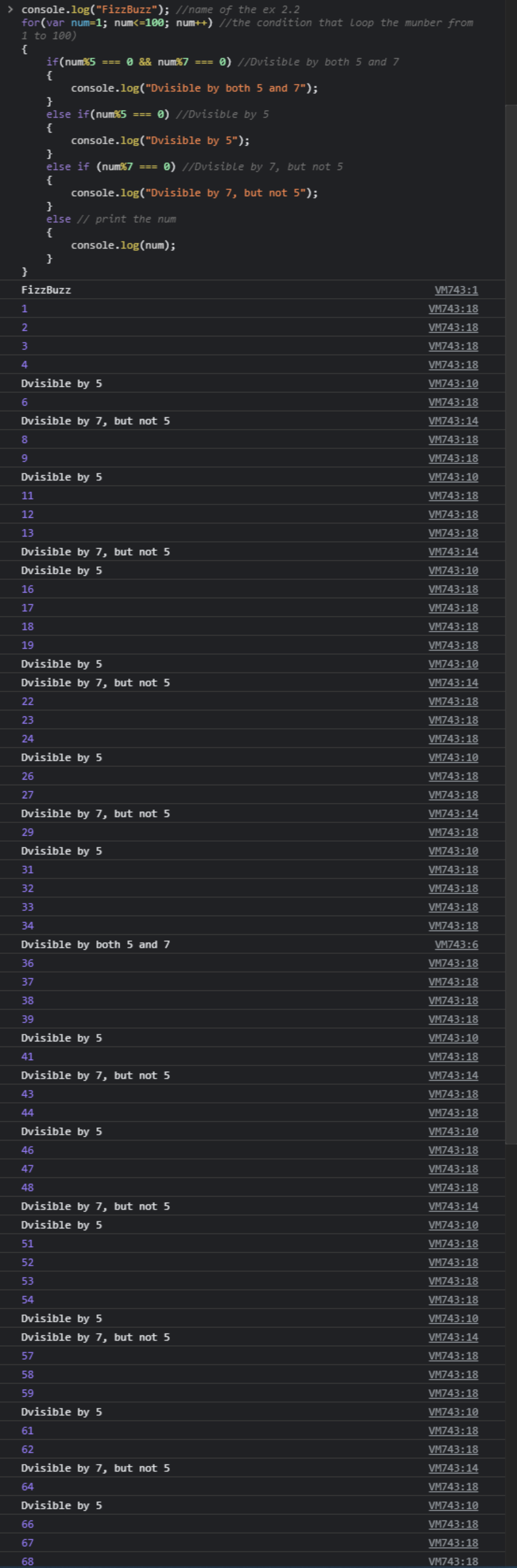
```
> console.log("n-by-n Grid"); //name of the ex 2.3
  var size = prompt("take a number"); //get a number from user
  console.log(`the size is ${size}`); // print the number
  var line = null; // create a line to store the character
  for (let row_size =0; row_size <size; row_size ++) //loop this for five
  times for row
  {
      for(let col_size =0; col_size <size; col_size ++)//loop this for five
  times for coloumn
      {
          if((row_size + col_size)% 2 === 0) //while the row + col === even,
  add space
          {
              if(line === null) // while it is the first character,
  initialize the line.
              {
                  line = ' ';
              }
              else
              {
                  line+=' ';
              }
          }
          if((row_size + col_size)% 2 === 1) //while the row + col === even,
  add '*'
          {
              if(line === null) // while it is the first character,
  initialize the line.
              {
                  line = '*';
              }
              else
              {
                  line+='*';
              }
          }
      }
      line+= '\n'; //switch the line

  }
  console.log(line);// print the string
  n-by-n Grid                                                      VM878:1
  the size is 5                                                    VM878:3
   * *                                                            VM878:35
  * * *
   * *
  * * *
   * *
<· undefined
```



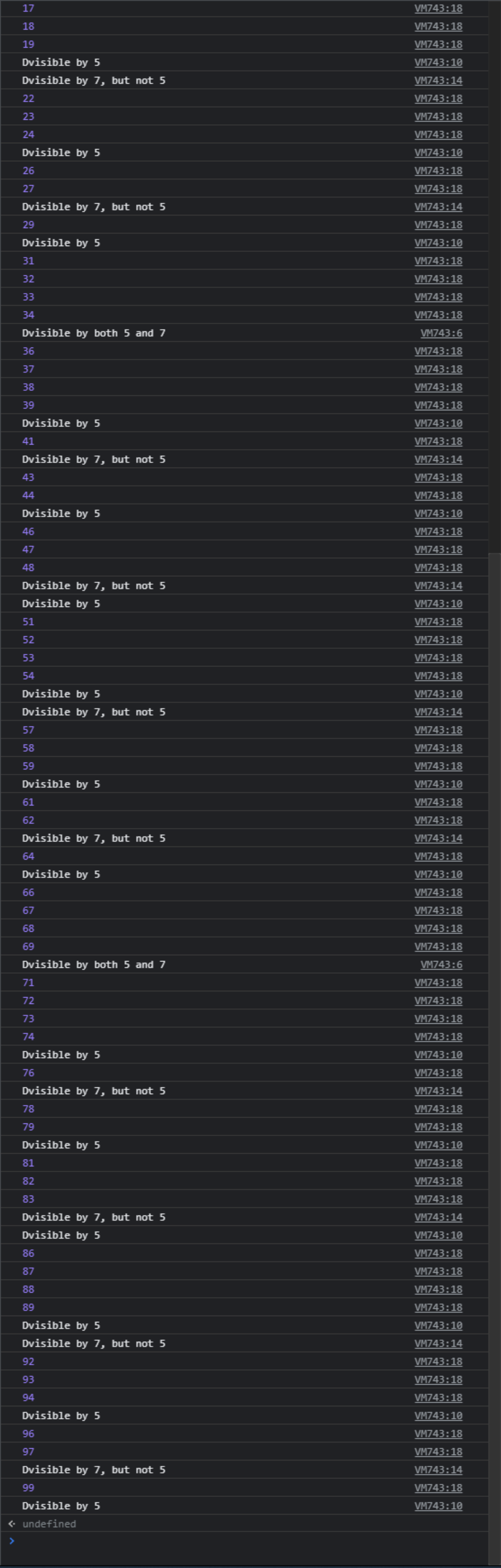
```
> console.log("n-by-n Grid"); //name of the ex 2.3
  var size = prompt("take a number"); //get a number from user
  console.log(`the size is ${size}`); // print the number
  var line = null; // create a line to store the character
  for (let row_size =0; row_size <size; row_size ++) //loop this for five
  times for row
  {
      for(let col_size =0; col_size <size; col_size ++)//loop this for five
  times for coloumn
      {
          if((row_size + col_size)% 2 === 0) //while the row + col === even,
  add space
          {
              if(line === null) // while it is the first character,
  initialize the line.
              {
                  line = ' ';
              }
              else
              {
                  line+=' ';
              }
          }
          if((row_size + col_size)% 2 === 1) //while the row + col === even,
  add '*'
          {
              if(line === null) // while it is the first character,
  initialize the line.
              {
                  line = '*';
              }
              else
              {
                  line+='*';
              }
          }
      }
      line+= '\n'; //switch the line

  }
  console.log(line);// print the string
  n-by-n Grid                                                      VM884:1
  the size is 10                                                   VM884:3
   * * * * *                                                      VM884:35
  * * * * *
   * * * * *
  * * * * *
   * * * * *
  * * * * *
   * * * * *
  * * * * *
   * * * * *
  * * * * *
< undefined
```

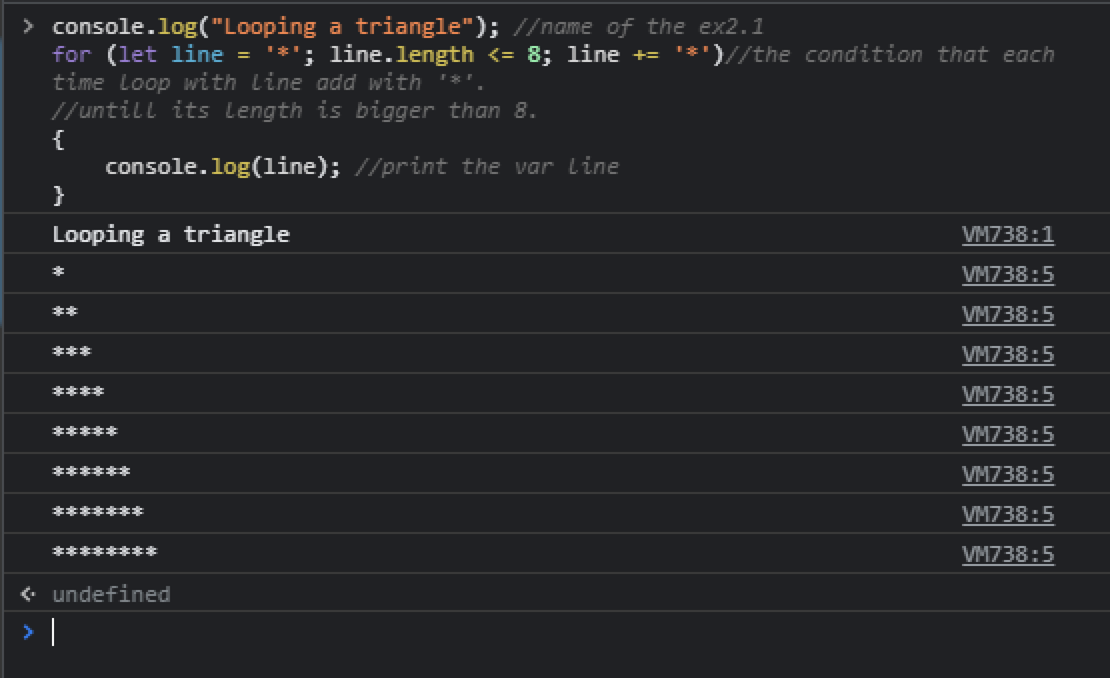


```
> console.log("FizzBuzz"); //name of the ex 2.2
  for(var num=1; num<=100; num++) //the condition that loop the munber from
  1 to 100)
  {
      if(num%5 === 0 && num%7 === 0) //Dvisible by both 5 and 7
      {
          console.log("Dvisible by both 5 and 7");
      }
      else if(num%5 === 0) //Dvisible by 5
      {
          console.log("Dvisible by 5");
      }
      else if (num%7 === 0) //Dvisible by 7, but not 5
      {
          console.log("Dvisible by 7, but not 5");
      }
      else // print the num
      {
          console.log(num);
      }
  }
```

```
FizzBuzz                                VM743:1
1                                       VM743:18
2                                       VM743:18
3                                       VM743:18
4                                       VM743:18
Dvisible by 5                           VM743:10
6                                       VM743:18
Dvisible by 7, but not 5                VM743:14
8                                       VM743:18
9                                       VM743:18
Dvisible by 5                           VM743:10
11                                      VM743:18
12                                      VM743:18
13                                      VM743:18
Dvisible by 7, but not 5                VM743:14
Dvisible by 5                           VM743:10
16                                      VM743:18
17                                      VM743:18
18                                      VM743:18
19                                      VM743:18
Dvisible by 5                           VM743:10
Dvisible by 7, but not 5                VM743:14
22                                      VM743:18
23                                      VM743:18
24                                      VM743:18
Dvisible by 5                           VM743:10
26                                      VM743:18
27                                      VM743:18
Dvisible by 7, but not 5                VM743:14
29                                      VM743:18
Dvisible by 5                           VM743:10
31                                      VM743:18
32                                      VM743:18
33                                      VM743:18
34                                      VM743:18
Dvisible by both 5 and 7                VM743:6
36                                      VM743:18
37                                      VM743:18
38                                      VM743:18
39                                      VM743:18
Dvisible by 5                           VM743:10
41                                      VM743:18
Dvisible by 7, but not 5                VM743:14
43                                      VM743:18
44                                      VM743:18
Dvisible by 5                           VM743:10
46                                      VM743:18
47                                      VM743:18
48                                      VM743:18
Dvisible by 7, but not 5                VM743:14
Dvisible by 5                           VM743:10
51                                      VM743:18
52                                      VM743:18
53                                      VM743:18
54                                      VM743:18
Dvisible by 5                           VM743:10
Dvisible by 7, but not 5                VM743:14
57                                      VM743:18
58                                      VM743:18
59                                      VM743:18
Dvisible by 5                           VM743:10
61                                      VM743:18
62                                      VM743:18
Dvisible by 7, but not 5                VM743:14
64                                      VM743:18
Dvisible by 5                           VM743:10
66                                      VM743:18
67                                      VM743:18
68                                      VM743:18
```



```
17                                    VM743:18
18                                    VM743:18
19                                    VM743:18
Dvisible by 5                         VM743:10
Dvisible by 7, but not 5              VM743:14
22                                    VM743:18
23                                    VM743:18
24                                    VM743:18
Dvisible by 5                         VM743:10
26                                    VM743:18
27                                    VM743:18
Dvisible by 7, but not 5              VM743:14
29                                    VM743:18
Dvisible by 5                         VM743:10
31                                    VM743:18
32                                    VM743:18
33                                    VM743:18
34                                    VM743:18
Dvisible by both 5 and 7               VM743:6
36                                    VM743:18
37                                    VM743:18
38                                    VM743:18
39                                    VM743:18
Dvisible by 5                         VM743:10
41                                    VM743:18
Dvisible by 7, but not 5              VM743:14
43                                    VM743:18
44                                    VM743:18
Dvisible by 5                         VM743:10
46                                    VM743:18
47                                    VM743:18
48                                    VM743:18
Dvisible by 7, but not 5              VM743:14
Dvisible by 5                         VM743:10
51                                    VM743:18
52                                    VM743:18
53                                    VM743:18
54                                    VM743:18
Dvisible by 5                         VM743:10
Dvisible by 7, but not 5              VM743:14
57                                    VM743:18
58                                    VM743:18
59                                    VM743:18
Dvisible by 5                         VM743:10
61                                    VM743:18
62                                    VM743:18
Dvisible by 7, but not 5              VM743:14
64                                    VM743:18
Dvisible by 5                         VM743:10
66                                    VM743:18
67                                    VM743:18
68                                    VM743:18
69                                    VM743:18
Dvisible by both 5 and 7               VM743:6
71                                    VM743:18
72                                    VM743:18
73                                    VM743:18
74                                    VM743:18
Dvisible by 5                         VM743:10
76                                    VM743:18
Dvisible by 7, but not 5              VM743:14
78                                    VM743:18
79                                    VM743:18
Dvisible by 5                         VM743:10
81                                    VM743:18
82                                    VM743:18
83                                    VM743:18
Dvisible by 7, but not 5              VM743:14
Dvisible by 5                         VM743:10
86                                    VM743:18
87                                    VM743:18
88                                    VM743:18
89                                    VM743:18
Dvisible by 5                         VM743:10
Dvisible by 7, but not 5              VM743:14
92                                    VM743:18
93                                    VM743:18
94                                    VM743:18
Dvisible by 5                         VM743:10
96                                    VM743:18
97                                    VM743:18
Dvisible by 7, but not 5              VM743:14
99                                    VM743:18
Dvisible by 5                         VM743:10
< undefined
>
```



```
> console.log("Looping a triangle"); //name of the ex2.1
  for (let line = '*'; line.length <= 8; line += '*')//the condition that each
  time loop with line add with '*'.
  //untill its length is bigger than 8.
  {
      console.log(line); //print the var line
  }
  Looping a triangle                                                    VM738:1
  *                                                                     VM738:5
  **                                                                    VM738:5
  ***                                                                   VM738:5
  ****                                                                  VM738:5
  *****                                                                 VM738:5
  ******                                                                VM738:5
  *******                                                               VM738:5
  ********                                                              VM738:5
<· undefined
> 
```