

作業： 巴斯卡三角型變奏曲

- 輸入一個數字 n ，在螢幕上印出所有小於 n 的質數。

```
C:\Windows\system32\cmd.exe
*
**
***
****
*****
2
*****
****
***
**
*
3
  *
  **
 ***
****
*****
4
*****
  ****
   ***
    **
     *
5
  *
  **
 ***
****
*****
6
*****
  ****
   ***
    **
     *
請按任意鍵繼續 . . .
```

```
namespace 巴斯卡三角形
```

```
{
```

```
    class Program
```

```
    {
```

```
        static void Main(string[] args)
```

```
        {
```

```
            int i, j, n=5;
```

```
            for (j = 0; j < n; ++j)
```

```
            {
```

```
                for (i = 0; i <= j; ++i)
```

```
                {
```

```
                    Console.Write("*");
```

```
                }
```

```
                Console.WriteLine();
```

```
            }
```

```
            Console.WriteLine("2");
```

```
            for (j = n; j > 0; j--)
```

```
            {
```

```
                for (i = 0; i < j; ++i)
```

```
                {
```

```
                    Console.Write("*");
```

```
                }
```

```
                Console.WriteLine();
```

```
            }
```

```
            Console.WriteLine("3");
```

```
            for (i = 0; i < n; i++)
```

```
            {
```

```
                for (j = n - 1; j > i; j--)
```

```
                {
```

```
                    Console.Write(" ");
```

```
                }
```

```
                for (j = 0 - 1; j < i; j++)
```

```
                {
```

```
                    Console.Write("*");
```

```
                }
```

```
                Console.WriteLine();
```

```
            }
```

```
            Console.WriteLine("4");
```

```
for (i = 0; i < n; i++)
{
    for (j = 0; j < i; j++)
    {
        Console.Write(" ");
    }
    for (j = n; j > i; j--)
    {
        Console.Write("*");
    }
    Console.WriteLine();
}
Console.WriteLine("5");
for (i = 1; i <= n; i++)
{
    for (j = 1; j <= n - i; j++)
    {
        Console.Write(" ");
    }

    for (j = 1; j <= 2 * i - 1; j++)
    {
        Console.Write("*");
    }

    Console.WriteLine();
}
Console.WriteLine("6");
for (i = 1; i <= n; i++)
{
    for (j = 1; j < i; j++)
    {
        Console.Write(" ");
    }
    for (j = 1; j <= ((n - i + 1) * 2 - 1); j++)
    {
        Console.Write("*");
    }
}
```

```
        Console.WriteLine();  
    }  
}  
}
```