## 运行说明和实验结果展示

### # 主代码的展示

#### 命令行窗口

```
>> %% create matrix
>> m = input('input m = ');
input m = 5
>> n = input('input n = ');
input n = 5
>> %% transpose matrix
>> A = rand(m,n);
>> B = Transpose(A);
>> %% maximal
>> s_maximal = MAX(A);
>> s_minmal = MIN(A);
>> %% use bubble sort
>> S = Sort(A);
```

在命令行界面里面分别对应五个功能

### #首先生成一个矩阵

1	<mark>⊮</mark> 变量 - A						
	<b>A</b> ※						
☐ 5x5 double							
	1	2	3	4	5	6	
1	0.1299	0.1622	0.6020	0.4505	0.8258		
2	0.5688	0.7943	0.2630	0.0838	0.5383		
3	0.4694	0.3112	0.6541	0.2290	0.9961		
4	0.0119	0.5285	0.6892	0.9133	0.0782		
5	0.3371	0.1656	0.7482	0.1524	0.4427		
6							

# #进行转置操作

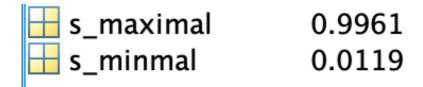
-		· · _ ·					
1							
	I B ☆						
$\blacksquare$	☐ 5x5 double						
	1	2	3	4	5	6	
1	0.1299	0.5688	0.4694	0.0119	0.3371		
2	0.1622	0.7943	0.3112	0.5285	0.1656		
3	0.6020	0.2630	0.6541	0.6892	0.7482		
4	0.4505	0.0838	0.2290	0.9133	0.1524		
5	0.8258	0.5383	0.9961	0.0782	0.4427		
6							
7							

```
function s_minimal = MIN(A)
  [r,coder] = size(A);
  s_minimal = A(1,1);
  for i = 1 : r
    for j = 1 : coder
        if s_minimal > A(i,j)
            s_minimal = A(i,j);
        end
    end
end
```

### #输入矩阵的行数和列数



### #寻找到矩阵中的最大值和最小值



找到最大数据

```
function s_maxim /Users/csgo/Documents/MATLAB/
  s_{maximal} = A(1, 1);
  [r, coder] = size(A);
  for i = 1 : r
       for j =1 : coder
           if s_maximal < A(i,j)</pre>
               s_{maximal} = A(i,j);
           end
       end
  end
找到最小数据
   function s_minimal = MIN(A)
   [r, coder] = size(A);
   s_{minimal} = A(1,1);
   for i = 1 : r
       for j = 1: coder
            if s_minimal > A(i,j)
                 s_{minimal} = A(i,j);
            end
       end
```

### #通过冒泡排序对矩阵中的元素进行排序

end



#### 25x1 double

	1	2	
3	0.0838		
4	0.1299		
5	0.1524		
6	0.1622		
7	0.1656		
8	0.2290		
9	0.2630		
10	0.3112		
11	0.3371		
12	0.4427		
13	0.4505		
14	0.4694		
15	0.5285		
16	0.5383		
17	0.5688		
18	0.6020		
19	0.6541		
20	0.6892		
21	0.7482		
22	0.7943		
23	0.8258		
24	N Q133		

4	U.JIJJ	
25	0.9961	
26		

```
function [S] = Sort(A)
[r,coder] = size(A);
S = zeros(r*coder,1);
for i = 1 : r
    for j = 1: coder
        S(i+r*(j-1)) = A(i,j);
    end
end
% bubble sort
for i = 1 : r*coder - 1
    for j = 1 : r*coder - i
        if(S(j) > S(j+1))
            temp = S(j);
            S(j) = S(j+1);
            S(j+1) = temp;
        end
    end
```

end