运行结果截图

1.

```
In [4]: a = int(input("please input the first value:"))
    ...: b = int(input("please input the second value:"))
   ...: c = int(input("please input the third value:"))
   ...: if a > b:
             if b > c:
                  print(a,b,c)
             elif a > c:
                 print(a,c,b)
             else:
                      print(c,a,b)
    ...: elif b > c:
    ...: print(False)
                  print(c,b,a)
please input the first value:5
please input the second value:3
please input the third value:8
8 5 3
In [5]:
```

2.

```
ht.THr(LIT)
  ...: M2 = np.random.randint(50, size=(10,5), dtype=(int))
  ...: print(M2)
   ...: def Matrix_multip(M1,M2):
           M3 = []
           for i in range(len(M1)):
               row = []
                for j in range(len(M2.T)):
                   product = 0
                    for l in range(len(M1[i])):
                        product += M1[i][1]*M2[1][j]
                   row.append(product)
               M3.append(row)
           return M3
[[47 19 38 12 24 15 49 23 41 26]
[30 43 30 44 26 48 28 5 16 9]
[47 48 12 37 34 38
                    3 39 11 0]
[41 11 16 3 2 19 12 1 11 43]
[17 14 7 42 43 46 28 17 23 13]]
[[32 12 5 49 31]
[37 31 25 20 45]
[16 41 8 44 6]
[22 44 26 19 47]
[49 18 21 46 34]
[37 45 38 7
             36]
     5 46 47 47]
[ 3
[15 34 10 28 4]
[18 39 25 43 14]
[23 20 41 0 34]]
```

3.

```
Print(Pascal_triangle(100))
Pascal_triangle(200)

[1, 100, 4950, 161700, 3921225, 75287520, 1192052400, 16007560800, 186087894300, 1902231808400, 17310309456440, 141629804643600, 1050421051106700, 7110542499799200, 44186942677323600, 253338471349988640, 1345860629046814650, 6650134872937201800, 30664510802988208300, 132341572939212267400, 535983370403809682970, 2041841411062132125600, 7332066885177656269200, 24865270306254660391200, 79776075565909368755100, 242519269720337121015504, 699574816500972464467800, 1917353200780443050763600, 4998813702034726525205100, 1241084781119482654336800, 29372339821610944823963760, 66324638306863423796047200, 143012501349174257560226775, 294692427022540894366527900, 580717429720889409486981450, 1095067153187962886461165020, 1977204582144932989443770175, 3420029547493938143902737600, 5670048986634686922786117600, 9013924030034630492634340800, 13746234145802811501267369720, 20116440213369968056635175200, 28258808871162574166368460400, 8116532895986727945334202400, 49378235579073715747364762200, 6144847121431679596720592960, 7347099819081499734399656800, 84413487283064039501507937600, 93206558875049876949581681100, 98913082887808032681188722800, 100891344545564193334812497256, 98913082887808032681188722800, 9378235797073715747364762200, 38116532895986727945334202400, 28258808871162574166368460400, 20116440213369968050635175200, 13746234145802811501267369720, 9013924030034630492634340880, 5670048986634686922786117600, 3420029547493938143902737600, 143012501349174057560226775, 6632463830686342974400, 28258808871162574166368460400, 20116440213369968050635175200, 13746234145802811501267369720, 9013924030034630492634340880, 5670048986634686922786117600, 3420029547493938143902737600, 1430125013491742575600226775, 663246383068634237960047200, 28258808871162574166368460400, 2016440213369968050635175200, 13746234145802811501267369720, 9013924030034630492634340880, 5670048986634686922786117600, 3420029547093938143902737600, 1430125013491742575600226775, 6632463830686343279600, 2937233982161
```

```
[1,
200,
19900,
1313400,
64684950,
2535650040,
82408626300,
2283896214600,
55098996177225,
1175445251780800,
 22451004309013280,
387790074428411200,
6107693672247476400,
88326646952501966400,
1179791641436990551200.
14629416353818682834880,
169152626591028520278300,
1830828428985249866541600,
18613422361350040309839600,
178296993145563544020568800,
1613587787967350073386147640,
13830752468291572057595551200,
112532031446554154468618348400,
870900069455940847626698522400,
6422888012237563751246901602700,
45217131606152448808778187283008,
304346078118333790059083952866400,
1961341392318151091491874362916800,
12118287888251433529574795170878800,
71873983337215398865064302392798400,
409681705022127773530866523638950880
```

4.

```
print(Total_solutions)
['12+3445-67+849=1', '12-3445-67+8+9=1', '1+23+45-67+8-9=1', '1+23+4-5-67-89=1', '1+23-45-67+89=1', '1+23-45-67+8-9=1', '1+23-45-67+8-9=1', '1+23-45-67+8-9=1', '1+23-45-67-8-9=1', '1+23-45-67-8-9=1', '1+23-45-67-8-9=1', '1+23-45-67-8-9=1', '1+23-45-67-8-9=1', '1-23-45-67-8-9=1', '1-23-45-67-8-9=1', '1-23-45-67-8-9=1', '1-23-45-67-8-9=1', '1-23-45-67-8-9=1', '1-23-45-67-8-9=1', '1-23-45-67-8-9=1', '1-23-45-67-8-9=1', '1-23-45-67-8-9=1', '1-23-45-67-8-9=1', '1-23-45-67-8-9=1', '1-23-45-67-8-9=1', '1-23-45-67-8-9=1', '1-23-45-67-8-9=1', '1-23-45-67-8-9=1', '1-23-45-67-8-9=1', '1-23-45-67-8-9=1', '1-23-45-67-8-9=2', '12-3-45-67-8-9=2', '12-3-45-67-8-9=2', '12-3-45-67-8-9=2', '12-3-45-67-8-9=2', '12-3-45-67-8-9=2', '12-3-45-67-8-9=2', '12-3-45-67-8-9=2', '12-3-45-67-8-9=2', '12-3-45-67-8-9=2', '12-3-45-67-8-9=2', '12-3-45-67-8-9=3', '14-23-45-67-8-9=3', '14-23-45-67-8-9=3', '14-23-45-67-8-9=3', '14-23-45-67-8-9=3', '14-23-45-67-8-9=3', '14-23-45-67-8-9=3', '14-23-45-67-8-9=3', '14-23-45-67-8-9=3', '14-23-45-67-8-9=3', '14-23-45-67-8-9=3', '14-23-45-67-8-9=3', '12-23-45-67-8-9=3', '12-23-45-67-8-9=3', '12-23-45-67-8-9=3', '12-23-45-67-8-9=3', '12-23-45-67-8-9=3', '12-23-45-67-8-9=3', '12-23-45-67-8-9=3', '12-23-45-67-8-9=3', '12-23-45-67-8-9=5', '12-23-45-67-8-9=5', '12-23-45-67-8-9=5', '12-23-45-67-8-9=5', '12-23-45-67-8-9=5', '12-23-45-67-8-9=5', '12-23-45-67-8-9=5', '12-23-45-67-8-9=5', '12-23-45-67-8-9=5', '12-23-45-67-8-9=5', '12-23-45-67-8-9=5', '12-23-45-67-8-9=5', '12-23-45-67-8-9=5', '12-23-45-67-8-9=5', '12-23-45-67-8-9=5', '12-23-45-67-8-9=5', '12-23-45-67-8-9=5', '12-23-45-67-8-9=5', '12-23-45-67-8-9=5', '12-23-45-67-8-9=5', '12-23-45-67-8-9=5', '12-23-45-67-8-9=5', '12-23-45-67-8-9=5', '12-23-45-67-8-9=5', '12-23-45-67-8-9=5', '12-23-45-67-8-9=5', '12-23-45-67-8-9=5', '12-23-45-67-8-9=5', '12-23-45-67-8-9=5', '12-23-45-67-8-9=5', '12-23-45-67-8-9=5', '12-23-45-67-8-9=5', '12-23-45-67-8-9=7', '12-23-45-67-8-9=7', '12-23-45-67-8-9=7', '12-23-45-67-8-9=7', '12-23-45-67-8-9=7', '12-23-
```

[26, 11, 18, 8, 21, 12, 17, 8, 22, 12, 21, 11, 16, 15, 20, 8, 17, 11, 20, 15, 16, 11, 23, 18, 13, 14, 21, 15, 19, 17, 14, 19, 19, 7, 14, 19, 19, 17, 18, 16, 17, 18, 10, 15, 26, 18, 15, 16, 12, 17, 19, 9, 17, 21, 16, 13, 14, 16, 17, 17, 11, 13, 22, 14, 13, 15, 15, 15, 15, 17, 7, 14, 17, 15, 12, 13, 14, 14, 14, 10, 9, 19, 12, 13, 13, 12, 11, 12, 6, 12, 14, 16, 13, 11, 11, 10, 11, 7, 9, 17, 11]

```
In [11]: maxnum = Total_solutions.index(max(Total_solutions)) + 1
    ...: print(maxnum)
    ...: minnum = Total_solutions.index(min(Total_solutions)) + 1
    ...: print(minnum)
1
88
```

