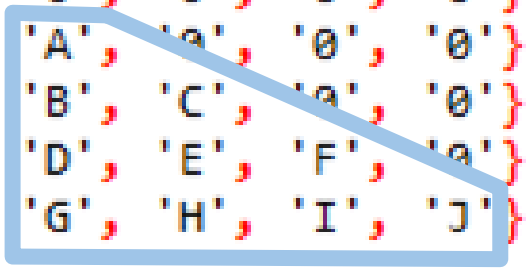
二維轉一維陣列練習

- 將二維轉一維陣列印出

二維轉一維陣列練習 -上梯形

```
char arrayA2[NN][NN] = {{'0', '0', '0', '0', '0'},
                        {'0', 'A', '0', '0', '0'},
                        {'0', 'B', 'C', '0', '0'},
                        {'0', 'D', 'E', 'F', '0'},
                        {'0', 'G', 'H', 'I', 'J'}};
```



A2[i][j] ->

A1[(1 + (i-1)) * (i-1) / 2 + (j-1)]

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二維轉一維陣列練習 -上梯形

```
23      print_2array (arrayA2);
24
25      int sizeA = (1 + (NN-1)) * (NN-1) / 2;
26      char arrayA1[sizeA];
27
28      int i, j;
29      for (i = 0; i < NN; i ++) {
30          for (j = 0; j < NN; j ++) {
31              if (arrayA2[i][j] != '0') {
32
33                  int temp = (1 + (i-1)) * (i-1) / 2 + (j-1);
34
35                  arrayA1[temp] = arrayA2[i][j];
36
37              }
38          }
39      }
40      print_1array (arrayA1, sizeA);
```

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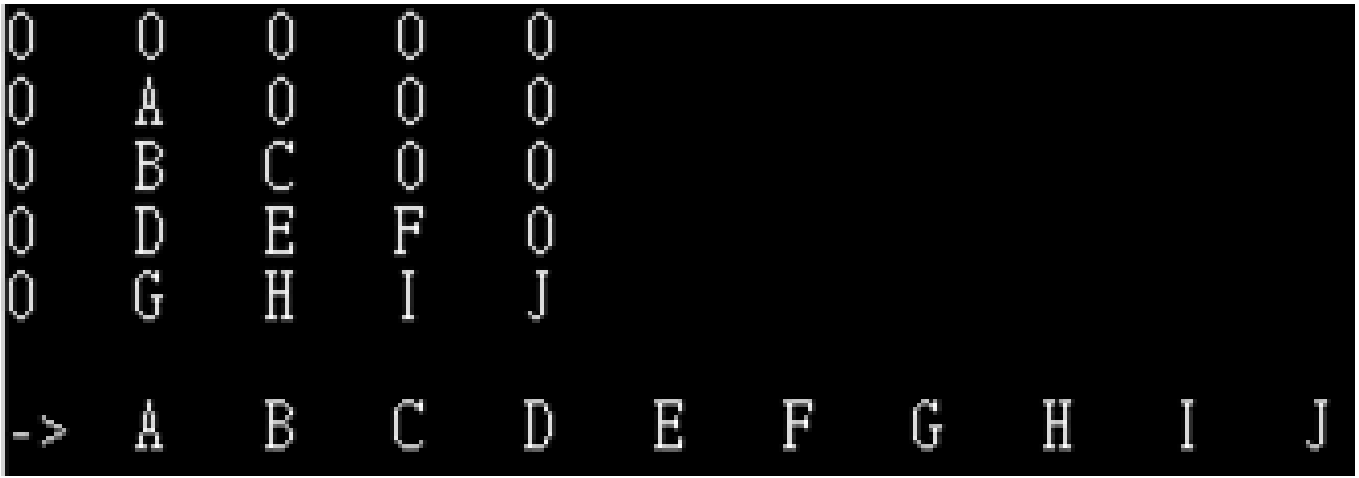
二維轉一維陣列練習 -上梯形



二維轉一維陣列練習 -下梯形

```
char arrayB2[NN][NN] = {{'a', 'b', 'c', 'd', '0'},
                        {'0', 'e', 'f', 'g', '0'},
                        {'0', '0', 'h', 'i', '0'},
                        {'0', '0', '0', 'j', '0'},
                        {'0', '0', '0', '0', '0'}};
```

B2[i][j] ->

B1[((NN-1) + (NN-i)) * i / 2 + (j-i)]

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二維轉一維陣列練習 -下梯形