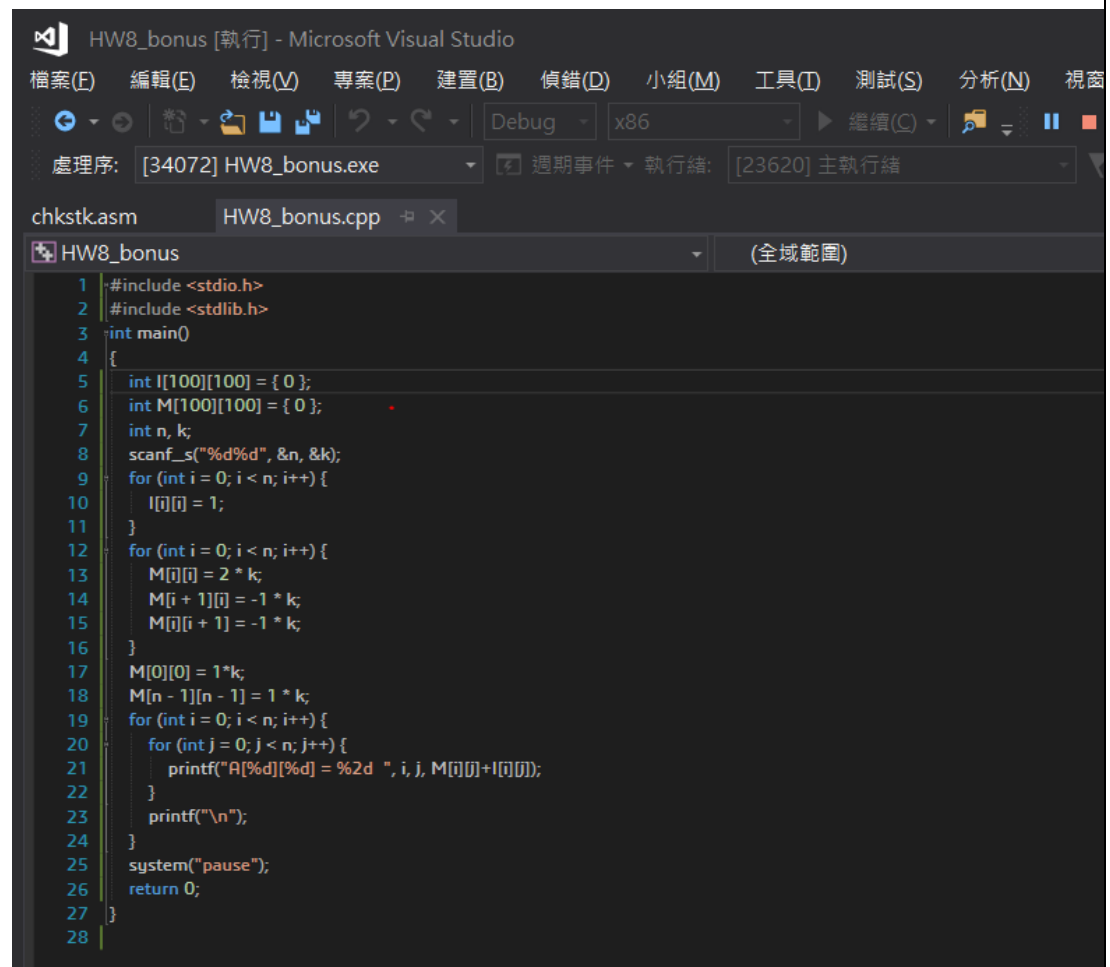


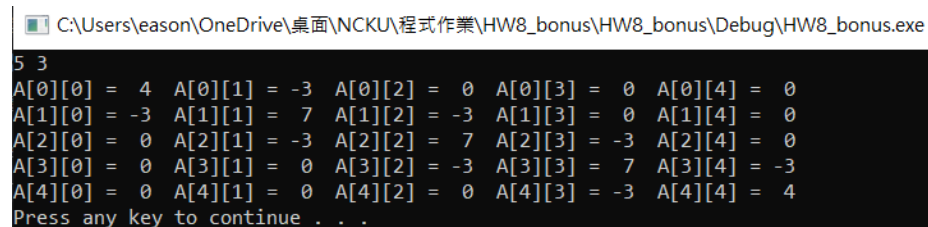
Bonus1.

.cpp



```
1 #include <stdio.h>
2 #include <stdlib.h>
3 int main()
4 {
5     int I[100][100] = { 0 };
6     int M[100][100] = { 0 };
7     int n, k;
8     scanf_s("%d%d", &n, &k);
9     for (int i = 0; i < n; i++) {
10         I[i][i] = 1;
11     }
12     for (int i = 0; i < n; i++) {
13         M[i][i] = 2 * k;
14         M[i + 1][i] = -1 * k;
15         M[i][i + 1] = -1 * k;
16     }
17     M[0][0] = 1 * k;
18     M[n - 1][n - 1] = 1 * k;
19     for (int i = 0; i < n; i++) {
20         for (int j = 0; j < n; j++) {
21             printf("A[%d][%d] = %2d ", i, j, M[i][j] + I[i][j]);
22         }
23         printf("\n");
24     }
25     system("pause");
26     return 0;
27 }
28
```

執行結果



```
C:\Users\eamon\OneDrive\桌面\NCKU\程式作業\HW8_bonus\HW8_bonus\Debug\HW8_bonus.exe
5 3
A[0][0] = 4 A[0][1] = -3 A[0][2] = 0 A[0][3] = 0 A[0][4] = 0
A[1][0] = -3 A[1][1] = 7 A[1][2] = -3 A[1][3] = 0 A[1][4] = 0
A[2][0] = 0 A[2][1] = -3 A[2][2] = 7 A[2][3] = -3 A[2][4] = 0
A[3][0] = 0 A[3][1] = 0 A[3][2] = -3 A[3][3] = 7 A[3][4] = -3
A[4][0] = 0 A[4][1] = 0 A[4][2] = 0 A[4][3] = -3 A[4][4] = 4
Press any key to continue . . .
```