柔性計算作業

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程式碼

```
#include <iostream>
using namespace std;
int main()
    int N_A, N_B;
    cout << "Enter the number of rows and columns in interval matrices [A] and [B] " <
    cin >> N_A >> N_B;
    double AUP[N_A][N_A],ADOW[N_A][N_A];
    double BUP[N_B][N_B],BDOW[N_B][N_B];
    int i,j,k;
    cout << "Enter the lower (Al) bound of first interval matrix [A]:" << endl;</pre>
    for(i= 0;i<N_A;i++)</pre>
    {
        for(j = 0; j < N_A; j++)
             cin >> AUP[i][j];
        }
    cout << "Enter the upper (Au) bound of first interval matrix [A]:" << endl;</pre>
    for(i= 0;i<N_A;i++)</pre>
    {
        for(j= 0;j<N_A;j++)</pre>
             cin >> ADOW[i][j];
        }
    cout << "Enter the lower (B1) bound of second interval matrix [B]:"<< endl;</pre>
    for(i= 0;i<N B;i++)</pre>
    {
        for(j= 0;j<N_B;j++)
        {
             cin >> BUP[i][j];
        }
    cout << "Enter the upper (Bu) bound of second interval matrix [B]:" << endl;</pre>
    for(i= 0;i<N_B;i++)</pre>
    {
        for(j= 0;j<N_B;j++)</pre>
             cin >> BDOW[i][j];
        }
    cout << "The addition of two interval matrices [A] and [B] is [C]=[A]+[B]: "<< endl;
    double CUP[N_A][N_B] , CDOW[N_A][N_B];
    for(i= 0;i<N A;i++)</pre>
    {
        for(j= 0;j<N_B;j++)</pre>
             for(k = 0; k < N_B; k++)
```

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輸出範例

```
Enter the number of rows and columns in interval matrices [A] and [B] 2 2
Enter the lower (Al) bound of first interval matrix [A]:
4 5 6 4
Enter the upper (Au) bound of first interval matrix [A]:
6 8 7 5
Enter the lower (Bl) bound of second interval matrix [B]:
2 -2 -1 2
Enter the upper (Bu) bound of second interval matrix [B]:
4 1 1 4
The addition of two interval matrices [A] and [B] is [C]=[A]+[B]:
[3 , 32] [2 , 38]
[8 , 33] [-4 , 27]

Process returned 0 (0x0) execution time: 1713.328 s
Press any key to continue.
```