```
Необхідно перевірити такі умови: чи збігаються ці множини; перетинаються чи
не перетинаються?
    Результати подайте у вигляді таблиці (матриці).
#include <iostream>
#include <string>
#include <iomanip>
#include <algorithm>
using namespace std;
int main()
    int pluralCount;
    cout << "Input plural amount: ";</pre>
    cin >> pluralCount;
    double** plurals = new double*[pluralCount];
    double** pluralsSorted = new double*[pluralCount];
    int* pluralsSize = new int[pluralCount];
    string **pluralCoincide = new string*[pluralCount+1];
    string **pluralIntersecting = new string*[pluralCount+1];
    for (int i = 0; i < pluralCount+1; i++)</pre>
        pluralCoincide[i] = new string[pluralCount+1];
        pluralCoincide[i][0] = i;
        pluralCoincide[0][i] = i;
        pluralIntersecting[i] = new string[pluralCount+1];
        pluralIntersecting[i][0] = i;
        pluralIntersecting[0][i] = i;
    pluralCoincide[0][0] = "Plurals";
    pluralIntersecting[0][0] = "Plurals";
    for (int i = 0; i < pluralCount; i++)</pre>
        string plural;
        cout << "Input plural number " << i + 1 << " size: ";</pre>
        cin >> pluralsSize[i];
        plurals[i] = new double[pluralsSize[i]];
        pluralsSorted[i] = new double[pluralsSize[i]];
```

```
cout << "Input plural in line through a space: ";</pre>
    for (int j = 0; j < pluralsSize[i]; j++)</pre>
        cin >> plurals[i][j];
        pluralsSorted[i][j] = plurals[i][j];
    sort(pluralsSorted[i], pluralsSorted[i]+pluralsSize[i]);
}
cout << "Convergence of sets: " << endl;</pre>
for (int i = 0; i < pluralCount; i++)</pre>
    for (int j = 0; j < pluralCount; j++)</pre>
        if (pluralsSize[i] == pluralsSize[j])
            if (i == j)
                 pluralCoincide[i+1][j+1] = "true";
             }
            else
                 for (int x = 0; x < pluralsSize[i]; x++)</pre>
                     if (pluralsSorted[i][x] != pluralsSorted[j][x])
                          pluralCoincide[i+1][j+1] = "false";
                          break;
                     }
                 if (pluralCoincide[i+1][j+1] != "false")
                     pluralCoincide[i+1][j+1] = "true";
                 }
        else
        {
            pluralCoincide[i+1][j+1] = "false";
    }
for (int i = 0; i < pluralCount+1; i++)</pre>
```

```
for (int j = 0; j < pluralCount+1; j++)</pre>
         cout << setw(8) << pluralCoincide[i][j] << " ";</pre>
    cout << endl;</pre>
}
cout << "Intersecting sets: " << endl;</pre>
for (int i = 0; i < pluralCount; i++)</pre>
{
    for (int j = 0; j < pluralCount; j++)</pre>
        if (pluralCoincide[i+1][j+1] != "true")
            for (int x = 0; x < pluralsSize[i]; x++)</pre>
                 for (int y = 0; y < pluralsSize[j]; y++)</pre>
                      if (pluralsSorted[i][x] == pluralsSorted[j][y])
                          pluralIntersecting[i+1][j+1] = "true";
                          break;
                      }
                 if (pluralIntersecting[i+1][j+1] == "true")
                      break;
                 }
             if (pluralIntersecting[i+1][j+1] != "true")
                 pluralIntersecting[i+1][j+1] = "false";
        else
             pluralIntersecting[i+1][j+1] = "true";
for (int i = 0; i < pluralCount+1; i++)</pre>
    for (int j = 0; j < pluralCount+1; j++)</pre>
         cout << setw(8) << pluralIntersecting[i][j] << " ";</pre>
```

```
Input plural amount: 3
Input plural number 1 size: 3
Input plural in line through a space: 1 2 3
Input plural number 2 size: 3
Input plural in line through a space: 3 2 1
Input plural number 3 size: 3
Input plural in line through a space: 2 3 1
Convergence of sets:
                                  ۳
 Plurals
               0
                         0
       0
             true
                      true
                               true
       0
             true
                      true
                               true
       ۳
             true
                      true
                               true
Intersecting sets:
 Plurals
                         0
                8
```

true

true

true

true

true

true

cout << endl;</pre>

0

•

true

true

true

Input plural amount: 4 Input plural number 1 size: 3 Input plural in line through a space: 1 2 3 Input plural number 2 size: 2 Input plural in line through a space: 2 2 Input plural number 3 size: 4 Input plural in line through a space: 1 2 3 4 Input plural number 4 size: 4 Input plural in line through a space: 4 3 2 1 Convergence of sets: Plurals 0 0 true false false false 0 false false false true false false true true false false true true Intersecting sets: Plurals **(3)** 0 0 true true true true 0 true true true true ۳ true true true true true true true true

```
Input plural amount: 3
Input plural number 1 size: 2
Input plural in line through a space: 1 2
Input plural number 2 size: 3
Input plural in line through a space: 3 4 5
Input plural number 3 size: 1
Input plural in line through a space: 2
Convergence of sets:
Plurals
               (3)
                        •
      8
            true
                    false
                             false
      0
           false
                    true
                             false
      ۳
           false
                    false
                             true
Intersecting sets:
Plurals
                        •
                                ۳
               0
      (3)
            true
                    false
                              true
      0
           false
                    true
                             false
      ۳
                    false
           true
                             true
```