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## Llista d'activitats

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Al final d'aquest enunciat hi podeu trobar un programa a mig fer que haureu de completar. Concretament, hi han dues funcions que estan pendents d'implementar. A continuació us expliquem amb quines dades treballa el programa i què han de fer aquestes funcions.

El programa treballa amb un tipus de dada `Activity`, que representa una activitat, que inclou el nom de l'activitat (`name`), l'instant de temps d'inici de l'activitat (`t1`), i l'instant de temps d'acabament de l'activitat (`t2`). Per simplificar, `t1` i `t2` son variables enteres, i el programa sempre treballa amb activitats correctament definides cumplint `t1 < t2`:

```
struct Activity {
    string name;
    int t1, t2;
};
```

El programa també treballa amb un tipus de dada `ListActivities`, que representa una llista d'activitats:

```
typedef vector<Activity> ListActivities;
```

Haureu d'implementar una funció per a verificar que dues activitats son compatibles en temps, és a dir, que no se sol.lapen en temps. En el cas particular en que una de les activitats acaba exactament quan l'altra comença, es consideren compatibles.

```
bool compatibleActivities(Activity a, Activity b)
```

A més a més, haureu d'implementar una funció que rep dues activitats i retorna cert si la primera és menor que la segona segons el criteri que descrivim a continuació. Una activitat és menor que una altra si comença estrictament abans que l'altra, o comença alhora que l'altra i acaba estrictament abans, o comença i acaba alhora que l'altra però el seu nom és menor que el nom de l'altra en ordre lexicogràfic.

```
bool smallerActivity(Activity a, Activity b)
```

La funció anterior es fa servir des d'un altre lloc del programa per a ordenar totes les activitats.

Completeu el següent codi a mig fer per tal de solucionar l'exercici:

```
#include <iostream>
#include <string>
#include <vector>
#include <algorithm>

// Here you can add more includes if you wish.

using namespace std;

struct Activity {
```

```

    string name;
    int t1, t2; // t1<t2 must be satisfied for a correct activity
};

typedef vector<Activity> ListActivities;

// Auxiliary functions (you can add more functions if you wish)

// Pre: The input contains a description of an activity with the format:
//
//      name t1 t2
//
//      where name is a non-empty string with lowercase letters and t1<t2
// Post: Returns the activity read from the input adapted to the format of struct
Activity readActivity()
{
    Activity a;
    cin >> a.name >> a.t1 >> a.t2;
    return a;
}

// Pre: listactivities represents a list of correct activities
// Post: Prints all activities from first to last, one per line, and with the format:
//
//      name t1 t2
void printActivities(const ListActivities &listactivities)
{
    for (int i = 0; i < int(listactivities.size()); i++) {
        const Activity &a = listactivities[i];
        cout << a.name << " " << a.t1 << " " << a.t2 << endl;
    }
}

// Pre: a, b represent correct activities.
// Post: Returns true iff the activities have a compatible timeline,
//        i.e. they do not overlap in time.
//        Note: if one of them finishes exactly when the other starts, then they are compatible.
bool compatibleActivities(Activity a, Activity b)
{
    // Implement this function.
    // ...
}

// Pre: a, b represent correct activities.
// Post: Returns true iff one of the following conditions holds:
//
//      - a starts strictly before b.
//      - a and b start at the same time but a finishes before b.
//      - a and b coincide in start and end time, but a has lexicographically smaller name.
bool smallerActivity(Activity a, Activity b)

```

```

{
    // Implement this function.
    // ...
}

int main()
{
    ListActivities listactivities;
    string command;
    while (cin >> command) {
        if (command == "NEW") {
            listactivities.push_back(readActivity());
        } else if (command == "SORT") {
            sort(listactivities.begin(), listactivities.end(), smallerActivity);
        } else if (command == "PRINT") {
            cout << "Current list activities:" << endl;
            printActivities(listactivities);
            cout << endl;
        } else if (command == "CHECKCOMPATIBLE") {
            int i, j;
            cin >> i >> j;
            string namei = listactivities[i].name;
            string namej = listactivities[j].name;
            if (compatibleActivities(listactivities[i], listactivities[j]))
                cout << "Activities " << namei << " and " << namej << " are compatible"
            else
                cout << "Activities " << namei << " and " << namej << " are incompatible"
            cout << endl;
        }
    }
}

```

## Entrada

L'entrada consisteix en una llista de comandes per a crear noves activitats, ordenar-les, escriure-les totes, i comprovar si dues d'elles son compatibles. No us n'heu de preocupar massa perquè el main que us donem ja s'encarrega de cridar a les corresponents funcions per a manejar aquestes comandes.

## Sortida

La sortida mostra els resultats de les comandes. No us n'heu de preocupar massa perquè el main que us donem ja s'encarrega de cridar a les corresponents funcions per tal de produir aquesta sortida.

### Exemple d'entrada 1

```

NEW biking 169 277
PRINT
SORT
NEW cinema 224 598

```

```

SORT
PRINT
NEW jogging 108 483
PRINT
CHECKCOMPATIBLE 0 1
CHECKCOMPATIBLE 1 2

```

SORT  
 PRINT  
 NEW gym 24 184  
 NEW swimming 218 574  
 CHECKCOMPATIBLE 2 3  
 PRINT  
 SORT  
 NEW chatting 161 501  
 SORT  
 NEW climbing 26 510  
 PRINT  
 NEW reading 207 303  
 NEW siteseeing 440 561  
 PRINT  
 NEW strolling 318 385  
 PRINT  
 SORT  
 PRINT  
 CHECKCOMPATIBLE 1 7  
 NEW bowling 413 553  
 NEW boxing 42 253  
 PRINT  
 NEW writing 77 154  
 PRINT  
 SORT  
 NEW flirting 84 320  
 PRINT  
 NEW singing 281 548  
 CHECKCOMPATIBLE 6 7  
 PRINT  
 CHECKCOMPATIBLE 4 9  
 CHECKCOMPATIBLE 1 5  
 NEW dancing 398 498  
 CHECKCOMPATIBLE 7 8  
 NEW shopping 28 58  
 PRINT  
 CHECKCOMPATIBLE 3 5  
 CHECKCOMPATIBLE 0 13  
 SORT  
 NEW cooking 182 530  
 CHECKCOMPATIBLE 6 14  
 PRINT  
 NEW praying 54 433  
 SORT  
 NEW fishing 435 599  
 PRINT  
 CHECKCOMPATIBLE 9 14  
 SORT  
 CHECKCOMPATIBLE 0 7  
 PRINT  
 CHECKCOMPATIBLE 10 19  
 CHECKCOMPATIBLE 10 17  
 CHECKCOMPATIBLE 4 19  
 NEW hunting 380 465  
 PRINT  
 CHECKCOMPATIBLE 2 4  
 CHECKCOMPATIBLE 0 17  
 CHECKCOMPATIBLE 11 13  
 SORT  
 CHECKCOMPATIBLE 5 16  
 PRINT

CHECKCOMPATIBLE 1 14  
 CHECKCOMPATIBLE 7 14  
 CHECKCOMPATIBLE 7 14  
 CHECKCOMPATIBLE 1 13  
 CHECKCOMPATIBLE 4 12  
 CHECKCOMPATIBLE 9 12  
 CHECKCOMPATIBLE 5 8  
 CHECKCOMPATIBLE 8 15  
 CHECKCOMPATIBLE 5 7  
 CHECKCOMPATIBLE 5 11  
 CHECKCOMPATIBLE 9 10  
 CHECKCOMPATIBLE 17 18  
 CHECKCOMPATIBLE 1 9  
 CHECKCOMPATIBLE 3 18  
 CHECKCOMPATIBLE 5 16  
 CHECKCOMPATIBLE 4 17  
 CHECKCOMPATIBLE 10 16  
 CHECKCOMPATIBLE 8 17  
 CHECKCOMPATIBLE 1 3  
 CHECKCOMPATIBLE 17 20  
 CHECKCOMPATIBLE 1 12  
 CHECKCOMPATIBLE 8 10  
 CHECKCOMPATIBLE 0 3  
 CHECKCOMPATIBLE 4 11  
 CHECKCOMPATIBLE 4 11  
 CHECKCOMPATIBLE 12 19  
 CHECKCOMPATIBLE 0 16  
 CHECKCOMPATIBLE 4 11  
 CHECKCOMPATIBLE 9 11

## Exemple de sortida 1

Current list activities:  
biking 169 277

Current list activities:  
biking 169 277  
cinema 224 598

Current list activities:  
biking 169 277  
cinema 224 598  
jogging 108 483

Activities biking and cinema are incompatible

Activities cinema and jogging are incompatible

Current list activities:  
jogging 108 483  
biking 169 277  
cinema 224 598

Activities cinema and gym are compatible

Current list activities:  
jogging 108 483  
biking 169 277  
cinema 224 598  
gym 24 184  
swimming 218 574

Current list activities:  
gym 24 184  
jogging 108 483  
chatting 161 501  
biking 169 277  
swimming 218 574  
cinema 224 598  
climbing 26 510

Current list activities:  
gym 24 184  
jogging 108 483  
chatting 161 501  
biking 169 277  
swimming 218 574  
cinema 224 598  
climbing 26 510  
reading 207 303  
siteseeing 440 561

Current list activities:  
gym 24 184  
jogging 108 483  
chatting 161 501  
biking 169 277  
swimming 218 574  
cinema 224 598  
climbing 26 510  
reading 207 303

siteseeing 440 561  
strolling 318 385

Current list activities:  
gym 24 184  
climbing 26 510  
jogging 108 483  
chatting 161 501  
biking 169 277  
reading 207 303  
swimming 218 574  
cinema 224 598  
strolling 318 385  
siteseeing 440 561

Activities climbing and cinema are incompatible

Current list activities:  
gym 24 184  
climbing 26 510  
jogging 108 483  
chatting 161 501  
biking 169 277  
reading 207 303  
swimming 218 574  
cinema 224 598  
strolling 318 385  
siteseeing 440 561  
bowling 413 553  
boxing 42 253

Current list activities:  
gym 24 184  
climbing 26 510  
jogging 108 483  
chatting 161 501  
biking 169 277  
reading 207 303  
swimming 218 574  
cinema 224 598  
strolling 318 385  
siteseeing 440 561  
bowling 413 553  
boxing 42 253  
writing 77 154

Current list activities:  
gym 24 184  
climbing 26 510  
boxing 42 253  
writing 77 154  
jogging 108 483  
chatting 161 501  
biking 169 277  
reading 207 303  
swimming 218 574  
cinema 224 598  
strolling 318 385  
bowling 413 553  
siteseeing 440 561  
flirting 84 320

|   |   |
|---|---|
| Activities biking and reading are incompatible  | reading 207 303<br>swimming 218 574<br>cinema 224 598<br>singing 281 548<br>strolling 318 385<br>dancing 398 498<br>bowling 413 553<br>siteseeing 440 561<br>cooking 182 530  |
| Current list activities:<br>gym 24 184<br>climbing 26 510<br>boxing 42 253<br>writing 77 154<br>jogging 108 483<br>chatting 161 501<br>biking 169 277<br>reading 207 303<br>swimming 218 574<br>cinema 224 598<br>strolling 318 385<br>bowling 413 553<br>siteseeing 440 561<br>flirting 84 320<br>singing 281 548                                      | Current list activities:<br>gym 24 184<br>climbing 26 510<br>shopping 28 58<br>boxing 42 253<br>praying 54 433<br>writing 77 154<br>flirting 84 320<br>jogging 108 483<br>chatting 161 501<br>biking 169 277<br>cooking 182 530<br>reading 207 303<br>swimming 218 574<br>cinema 224 598<br>singing 281 548<br>strolling 318 385<br>dancing 398 498<br>bowling 413 553<br>siteseeing 440 561<br>fishing 435 599 |
| Activities jogging and cinema are incompatible  | Activities biking and singing are compatible  |
| Activities climbing and chatting are incompatible   | Activities gym and jogging are incompatible   |
| Activities reading and swimming are incompatible  | Current list activities:<br>gym 24 184<br>climbing 26 510<br>shopping 28 58<br>boxing 42 253<br>praying 54 433<br>writing 77 154<br>flirting 84 320<br>jogging 108 483<br>chatting 161 501<br>biking 169 277<br>cooking 182 530<br>reading 207 303<br>swimming 218 574<br>cinema 224 598<br>singing 281 548<br>strolling 318 385<br>dancing 398 498<br>bowling 413 553<br>fishing 435 599<br>siteseeing 440 561 |
| Current list activities:<br>gym 24 184<br>climbing 26 510<br>boxing 42 253<br>writing 77 154<br>jogging 108 483<br>chatting 161 501<br>biking 169 277<br>reading 207 303<br>swimming 218 574<br>cinema 224 598<br>strolling 318 385<br>bowling 413 553<br>siteseeing 440 561<br>flirting 84 320<br>singing 281 548<br>dancing 398 498<br>shopping 28 58 | Activities writing and chatting are compatible  |
| Activities writing and chatting are compatible  | Activities gym and flirting are incompatible  |
| Activities gym and flirting are incompatible  | Activities jogging and dancing are incompatible   |
| Activities jogging and dancing are incompatible   | Current list activities:<br>gym 24 184<br>climbing 26 510<br>shopping 28 58<br>boxing 42 253<br>writing 77 154<br>flirting 84 320<br>jogging 108 483<br>chatting 161 501<br>biking 169 277  |
| Current list activities:<br>gym 24 184<br>climbing 26 510<br>shopping 28 58<br>boxing 42 253<br>writing 77 154<br>flirting 84 320<br>jogging 108 483<br>chatting 161 501<br>biking 169 277  | Activities cooking and siteseeing are incompatible<br><br>Activities cooking and bowling are incompatible   |

|  |  |
|--|--|
| Activities praying and siteseeing are compatible | Activities jogging and singing are incompatible    |
| Current list activities:                         | Activities jogging and singing are incompatible    |
| gym 24 184                                       | Activities climbing and cinema are incompatible    |
| climbing 26 510                                  | Activities praying and swimming are incompatible   |
| shopping 28 58                                   | Activities biking and swimming are incompatible    |
| boxing 42 253                                    | Activities writing and chatting are compatible     |
| praying 54 433                                   | Activities chatting and strolling are incompatible |
| writing 77 154                                   | Activities writing and jogging are incompatible    |
| flirting 84 320                                  | Activities writing and reading are compatible      |
| jogging 108 483                                  | Activities biking and cooking are incompatible     |
| chatting 161 501                                 | Activities dancing and bowling are incompatible    |
| biking 169 277                                   | Activities climbing and biking are incompatible    |
| cooking 182 530                                  | Activities boxing and bowling are compatible       |
| reading 207 303                                  | Activities writing and hunting are compatible      |
| swimming 218 574                                 | Activities praying and dancing are incompatible    |
| cinema 224 598                                   | Activities cooking and hunting are incompatible    |
| singing 281 548                                  | Activities chatting and dancing are incompatible   |
| strolling 318 385                                | Activities climbing and boxing are incompatible    |
| dancing 398 498                                  | Activities dancing and siteseeing are incompatible |
| bowling 413 553                                  | Activities climbing and swimming are incompatible  |
| fishing 435 599                                  | Activities chatting and cooking are incompatible   |
| siteseeing 440 561                               | Activities gym and boxing are incompatible         |
| hunting 380 465                                  | Activities praying and reading are incompatible    |
| Activities shopping and praying are incompatible | Activities praying and reading are incompatible    |
| Activities gym and bowling are compatible        | Activities swimming and fishing are incompatible   |
| Activities reading and cinema are incompatible   | Activities gym and hunting are compatible          |
| Activities writing and hunting are compatible    | Activities praying and reading are incompatible    |
| Current list activities:                         | Activities biking and reading are incompatible     |
| gym 24 184                                       |  |
| climbing 26 510                                  |  |
| shopping 28 58                                   |  |
| boxing 42 253                                    |  |
| praying 54 433                                   |  |
| writing 77 154                                   |  |
| flirting 84 320                                  |  |
| jogging 108 483                                  |  |
| chatting 161 501                                 |  |
| biking 169 277                                   |  |
| cooking 182 530                                  |  |
| reading 207 303                                  |  |
| swimming 218 574                                 |  |
| cinema 224 598                                   |  |
| singing 281 548                                  |  |
| strolling 318 385                                |  |
| hunting 380 465                                  |  |
| dancing 398 498                                  |  |
| bowling 413 553                                  |  |
| fishing 435 599                                  |  |
| siteseeing 440 561                               |  |
| Activities climbing and singing are incompatible |  |

## Exemple d'entrada 2

```
NEW biking 1 3
PRINT
NEW cinema 2 3
CHECKCOMPATIBLE 0 1
PRINT
NEW jogging 0 3
NEW gym 1 3
PRINT
NEW swimming 2 3
PRINT
CHECKCOMPATIBLE 2 3
CHECKCOMPATIBLE 3 4
CHECKCOMPATIBLE 1 4
CHECKCOMPATIBLE 1 3
NEW chatting 0 1
CHECKCOMPATIBLE 0 2
NEW climbing 1 2
NEW reading 0 1
NEW siteseeing 1 2
PRINT
NEW strolling 0 1
CHECKCOMPATIBLE 2 7
CHECKCOMPATIBLE 3 6
CHECKCOMPATIBLE 0 7
PRINT
CHECKCOMPATIBLE 2 7
CHECKCOMPATIBLE 0 8
SORT
NEW bowling 0 1
CHECKCOMPATIBLE 4 10
PRINT
NEW boxing 0 1
CHECKCOMPATIBLE 4 7
PRINT
CHECKCOMPATIBLE 6 10
NEW writing 1 2
NEW flirting 1 3
SORT
PRINT
CHECKCOMPATIBLE 3 8
NEW singing 1 2
PRINT
CHECKCOMPATIBLE 1 4
NEW dancing 1 3
NEW shopping 1 3
PRINT
SORT
CHECKCOMPATIBLE 0 3
CHECKCOMPATIBLE 5 11
NEW cooking 2 3
PRINT
NEW praying 1 3
CHECKCOMPATIBLE 0 17
NEW fishing 0 3
PRINT
SORT
CHECKCOMPATIBLE 8 18
PRINT
NEW hunting 0 3
```

```
SORT
PRINT
CHECKCOMPATIBLE 4 5
CHECKCOMPATIBLE 3 8
CHECKCOMPATIBLE 7 13
CHECKCOMPATIBLE 14 16
CHECKCOMPATIBLE 8 17
CHECKCOMPATIBLE 15 17
CHECKCOMPATIBLE 18 20
CHECKCOMPATIBLE 4 16
CHECKCOMPATIBLE 0 11
CHECKCOMPATIBLE 4 8
CHECKCOMPATIBLE 2 15
CHECKCOMPATIBLE 15 16
CHECKCOMPATIBLE 2 3
CHECKCOMPATIBLE 1 11
CHECKCOMPATIBLE 4 17
CHECKCOMPATIBLE 8 11
CHECKCOMPATIBLE 9 19
CHECKCOMPATIBLE 11 20
CHECKCOMPATIBLE 11 17
CHECKCOMPATIBLE 10 12
CHECKCOMPATIBLE 6 14
CHECKCOMPATIBLE 6 16
CHECKCOMPATIBLE 2 3
CHECKCOMPATIBLE 1 19
CHECKCOMPATIBLE 16 20
CHECKCOMPATIBLE 5 11
CHECKCOMPATIBLE 1 6
CHECKCOMPATIBLE 4 12
CHECKCOMPATIBLE 0 10
CHECKCOMPATIBLE 8 11
CHECKCOMPATIBLE 0 7
CHECKCOMPATIBLE 9 16
CHECKCOMPATIBLE 10 17
CHECKCOMPATIBLE 2 9
CHECKCOMPATIBLE 2 11
CHECKCOMPATIBLE 4 11
CHECKCOMPATIBLE 5 14
CHECKCOMPATIBLE 19 20
CHECKCOMPATIBLE 1 19
```



## Exemple de sortida 2

Current list activities:  
biking 1 3

Activities biking and cinema are incompatible

Current list activities:  
biking 1 3  
cinema 2 3

Current list activities:  
biking 1 3  
cinema 2 3  
jogging 0 3  
gym 1 3

Current list activities:  
biking 1 3  
cinema 2 3  
jogging 0 3  
gym 1 3  
swimming 2 3

Activities jogging and gym are incompatible

Activities gym and swimming are incompatible

Activities cinema and swimming are incompatible

Activities cinema and gym are incompatible

Activities biking and jogging are incompatible

Current list activities:  
biking 1 3  
cinema 2 3  
jogging 0 3  
gym 1 3  
swimming 2 3  
chatting 0 1  
climbing 1 2  
reading 0 1  
siteseeing 1 2

Activities jogging and reading are incompatible

Activities gym and climbing are incompatible

Activities biking and reading are compatible

Current list activities:  
biking 1 3  
cinema 2 3  
jogging 0 3  
gym 1 3  
swimming 2 3  
chatting 0 1  
climbing 1 2  
reading 0 1  
siteseeing 1 2

strolling 0 1

Activities jogging and reading are incompatible

Activities biking and siteseeing are incompatible

Activities climbing and bowling are compatible

Current list activities:  
chatting 0 1  
reading 0 1  
strolling 0 1  
jogging 0 3  
climbing 1 2  
siteseeing 1 2  
biking 1 3  
gym 1 3  
cinema 2 3  
swimming 2 3  
bowling 0 1

Activities climbing and gym are incompatible

Current list activities:  
chatting 0 1  
reading 0 1  
strolling 0 1  
jogging 0 3  
climbing 1 2  
siteseeing 1 2  
biking 1 3  
gym 1 3  
cinema 2 3  
swimming 2 3  
bowling 0 1  
boxing 0 1

Activities biking and bowling are compatible

Current list activities:  
bowling 0 1  
boxing 0 1  
chatting 0 1  
reading 0 1  
strolling 0 1  
jogging 0 3  
climbing 1 2  
siteseeing 1 2  
writing 1 2  
biking 1 3  
flirting 1 3  
gym 1 3  
cinema 2 3  
swimming 2 3

Activities reading and writing are compatible

Current list activities:  
bowling 0 1  
boxing 0 1  
chatting 0 1

reading 0 1  
strolling 0 1  
jogging 0 3  
climbing 1 2  
siteseeing 1 2  
writing 1 2  
biking 1 3  
flirting 1 3  
gym 1 3  
cinema 2 3  
swimming 2 3  
singing 1 2

Activities boxing and strolling are incompatible

Current list activities:

bowling 0 1  
boxing 0 1  
chatting 0 1  
reading 0 1  
strolling 0 1  
jogging 0 3  
climbing 1 2  
siteseeing 1 2  
writing 1 2  
biking 1 3  
flirting 1 3  
gym 1 3  
cinema 2 3  
swimming 2 3  
singing 1 2  
dancing 1 3  
shopping 1 3

Activities bowling and reading are incompatible

Activities jogging and dancing are incompatible

Current list activities:

bowling 0 1  
boxing 0 1  
chatting 0 1  
reading 0 1  
strolling 0 1  
jogging 0 3  
climbing 1 2  
singing 1 2  
siteseeing 1 2  
writing 1 2  
biking 1 3  
dancing 1 3  
flirting 1 3  
gym 1 3  
shopping 1 3  
cinema 2 3  
swimming 2 3  
cooking 2 3

Activities bowling and cooking are compatible

Current list activities:

bowling 0 1  
boxing 0 1  
chatting 0 1  
reading 0 1  
strolling 0 1  
jogging 0 3  
climbing 1 2  
singing 1 2  
siteseeing 1 2  
writing 1 2  
biking 1 3  
dancing 1 3  
flirting 1 3  
shopping 1 3

cinema 2 3  
swimming 2 3  
cooking 2 3  
praying 1 3  
fishing 0 3

Activities singing and cooking are compatible

Current list activities:

bowling 0 1  
boxing 0 1  
chatting 0 1  
reading 0 1  
strolling 0 1  
fishing 0 3  
jogging 0 3  
climbing 1 2  
singing 1 2  
siteseeing 1 2  
writing 1 2  
biking 1 3  
flirting 1 3  
gym 1 3  
praying 1 3  
shopping 1 3  
cinema 2 3  
cooking 2 3  
swimming 2 3

Current list activities:

bowling 0 1  
boxing 0 1  
chatting 0 1  
reading 0 1  
strolling 0 1  
fishing 0 3  
hunting 0 3  
jogging 0 3  
climbing 1 2  
singing 1 2  
siteseeing 1 2  
writing 1 2  
biking 1 3  
dancing 1 3  
flirting 1 3

|   |   |
|---|---|
| gym 1 3   | Activities writing and shopping are incompatible    |
| praying 1 3                                       |   |
| shopping 1 3                                      | Activities siteseeing and biking are incompatible   |
| cinema 2 3  |   |
| cooking 2 3                                       | Activities hunting and flirting are incompatible    |
| swimming 2 3                                      |   |
| Activities strolling and fishing are incompatible | Activities hunting and praying are incompatible     |
| Activities reading and climbing are compatible    | Activities chatting and reading are incompatible    |
| Activities jogging and dancing are incompatible   | Activities boxing and cooking are compatible        |
| Activities flirting and praying are incompatible  | Activities praying and swimming are incompatible    |
| Activities climbing and shopping are incompatible | Activities fishing and writing are incompatible     |
| Activities gym and shopping are incompatible      | Activities boxing and hunting are incompatible      |
| Activities cinema and swimming are incompatible   | Activities strolling and biking are compatible      |
| Activities strolling and praying are compatible   | Activities bowling and siteseeing are compatible    |
| Activities bowling and writing are compatible     | Activities climbing and writing are incompatible    |
| Activities strolling and climbing are compatible  | Activities bowling and jogging are incompatible     |
| Activities chatting and gym are compatible        | Activities singing and praying are incompatible     |
| Activities gym and praying are incompatible       | Activities siteseeing and shopping are incompatible |
| Activities chatting and reading are incompatible  | Activities chatting and singing are compatible      |
| Activities boxing and writing are compatible      | Activities chatting and writing are compatible      |
| Activities strolling and shopping are compatible  | Activities strolling and writing are compatible     |
| Activities climbing and writing are incompatible  | Activities fishing and flirting are incompatible    |
| Activities singing and cooking are compatible     | Activities cooking and swimming are incompatible    |
| Activities writing and swimming are compatible    | Activities boxing and cooking are compatible        |

## Informació del problema

Autoria: PRO1

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