```
bash-3.2$ cat movies.dat
1|Toy Story (1995)|01-Jan-1995||http://us.imdb.com/M/title-exact?Toy%20Story%20(1995)|0|0|0|1|1|1|0|0|0|0|0|0|0|0|0|0|0|0|0
2|GoldenEye (1995)|01-Jan-1995||http://us.imdb.com/M/title-exact?GoldenEye%20(1995)|0|1|1|0|0|0|0|0|0|0|0|0|0|0|0|1|0|0
3|Four Rooms (1995)|01-Jan-1995||http://us.imdb.com/M/title-exact?Four%20Rooms%20(1995)|0|0|0|0|0|0|0|0|0|0|0|0|1|0|0
4|Get Shorty (1995)|01-Jan-1995||http://us.imdb.com/M/title-exact?Get%20Shorty%20(1995)|0|1|0|0|0|1|0|0|0|0|0|0|0|0|0|0|0|0
5|Copycat (1995)|01-Jan-1995||http://us.imdb.com/M/title-exact?Copycat%20(1995)|0|0|0|0|0|0|0|1|0|1|0|0|0|0|0|0|1|0|0
bash-3.2$ cat test.dat
1       2       3       100
1       4       3       100
2       1       2       100
2       2       3       100
2       3       2       100
2       4       4       100
3       2       4       100
3       3       2       100
3       4       5       100
4       3       4       100
4       4       3       100
4       5       4       100
5       1       3       100
5       2       3       100
5       4       5       100
5       5       5       100
bash-3.2$ cat result
List of movies are:

{ '1': 'Toy Story (1995)',
  '2': 'GoldenEye (1995)',
  '3': 'Four Rooms (1995)',
  '4': 'Get Shorty (1995)',
  '5': 'Copycat (1995)'}

The preference list is:

{ '1': {'GoldenEye (1995)': 3.0, 'Get Shorty (1995)': 3.0},
  '2': { 'Four Rooms (1995)': 2.0,
         'Get Shorty (1995)': 4.0,
         'GoldenEye (1995)': 3.0,
         'Toy Story (1995)': 2.0},
  '3': { 'Four Rooms (1995)': 2.0,
         'Get Shorty (1995)': 5.0,
         'GoldenEye (1995)': 4.0},
  '4': { 'Copycat (1995)': 4.0,
         'Four Rooms (1995)': 4.0,
         'Get Shorty (1995)': 3.0},
  '5': { 'Copycat (1995)': 5.0,
```

```
'Get Shorty (1995)'': 5.0,
'GoldenEye (1995)'': 3.0,
'Toy Story (1995)'': 3.0}

similarity between user 3 and guest(1): 0.3090

similarity between user 2 and guest(1): 0.5

similarity between user 5 and guest(1): 0.3333

similarity between user 4 and guest(1): 1.0

Final rating:

[(4.25, 'Copycat (1995)''),
(3.105572809000843, 'Four Rooms (1995)''),
(2.4000000000000004, 'Toy Story (1995)'')]
```