

[HOME](#) [CONTESTS](#) [GYM](#) [PROBLEMSET](#) [GROUPS](#) [RATING](#) [API](#) [CANADA CUP](#)  [SECTIONS](#)
[PROBLEMS](#) [SUBMIT CODE](#) [MYSUBMISSIONS](#) [STATUS](#) [HACKS](#) [ROOM](#) [STANDINGS](#) [CUSTOM INVOCATION](#)

General

#	Author	Problem	Lang	Verdict	Time	Memory	Sent	Judged	
8268848	Contestant: suTest	478D - 11	GNU C++	Accepted	374 ms	1576 KB	2014-10- 16 21:28:02	2014-10- 16 22:01:04	Compare

[→ Source](#)

```
#include<bits/stdc++.h>
using namespace std;
const int INF=0x3f3f3f3f;
const int maxn=200020;
const int mod=1e9+7;
typedef long long ll;
int dp[2][maxn],ans,now;
int main()
{
    int r,g,i,j,op,rr,rg,flag;

    while(~scanf("%d%d",&r,&g))
    {
        op=0;
        memset(dp[op],-1,(r+5)*sizeof(int));
        if(r)
            dp[op][1]=1;
        if(g)
            dp[op][0]=1;
        for(i=1;i;i++)
        {
```

```

memset(dp[op^1], -1, (r+5)*sizeof(int));
now=(1l)i*(i+1)/2;
flag=0;
for(j=0;j<=r&& j<=now;j++)
{
    if(dp[op][j]==-1)
        continue;
    rr=r-j;
    rg=g-now+j;
    if(rr>=i+1)
    {
        if(dp[op^1][j+i+1]==-1)
            dp[op^1][j+i+1]=dp[op][j];
        else
            dp[op^1][j+i+1]=(dp[op^1][j+i+1]+dp[op][j])%mod;
        flag=1;
    }
    if(rg>=i+1)
    {
        if(dp[op^1][j]==-1)
            dp[op^1][j]=dp[op][j];
        else
            dp[op^1][j]=(dp[op^1][j]+dp[op][j])%mod;
        flag=1;
    }
}
if(!flag)
    break;
op^=1;
}
ans=0;
for(j=0;j<=r;j++)
    if(dp[op][j]>=0)
        ans=(ans+dp[op][j])%mod;
printf("%d\n", ans);
}
return 0;
}

```

1

Time: 15 ms, **memory:** 1576 KB

Verdict: OK

Input

4 6

Participant's output

2

Jury's answer

2

Checker comment

ok 1 number(s): "2"

2

Time: 15 ms, **memory:** 1568 KB

Verdict: OK

Input

9 7

Participant's output

6

Jury's answer

6

Checker comment

ok 1 number(s): "6"

3

Time: 0 ms, **memory:** 1564 KB

Verdict: OK

Input

1 1

Participant's output

2

Jury's answer

2

Checker comment

ok 1 number(s): "2"

4

Time: 0 ms, **memory:** 1568 KB

Verdict: OK

Input

3 3

Participant's output

2

Jury's answer

2

Checker comment

ok 1 number(s): "2"

5

Time: 0 ms, **memory:** 1576 KB

Verdict: OK

Input

2 19

Participant's output

1

Jury's answer

1

Checker comment

ok 1 number(s): "1"

6

Time: 15 ms, **memory:** 1568 KB

Verdict: OK

Input

18 3

Participant's output

2

Jury's answer

2

Checker comment

ok 1 number(s): "2"

7

Time: 15 ms, **memory:** 1564 KB

Verdict: OK

Input

100000 1

Participant's output

2

Jury's answer

2

Checker comment

ok 1 number(s): "2"

8

Time: 15 ms, **memory:** 1564 KB

Verdict: OK

Input

1 100000

Participant's output

2

Jury's answer

2

Checker comment

ok 1 number(s): "2"

9

Time: 0 ms, **memory:** 1568 KB

Verdict: OK

Input

6 6

Participant's output

6

Jury's answer

6

Checker comment

ok 1 number(s): "6"

10

Time: 0 ms, **memory:** 1568 KB

Verdict: OK

Input

10 10

Participant's output

18

Jury's answer

18

Checker comment

ok 1 number(s): "18"

11

Time: 358 ms, **memory:** 1572 KB

Verdict: OK

Input

200000 200000

Participant's output

206874596

Jury's answer

206874596

Checker comment

ok 1 number(s): "206874596"

12

Time: 15 ms, **memory:** 1560 KB

Verdict: OK

Input

0 1

Participant's output

1

Jury's answer

1

Checker comment

ok 1 number(s): "1"

13

Time: 0 ms, **memory:** 1564 KB

Verdict: OK

Input

1 0

Participant's output

1

Jury's answer

1

Checker comment

ok 1 number(s): "1"

14

Time: 0 ms, **memory:** 1576 KB

Verdict: OK

Input

0 200000

Participant's output

1

Jury's answer

1

Checker comment

ok 1 number(s): "1"

15

Time: 61 ms, **memory:** 1568 KB

Verdict: OK

Input

200000 0

Participant's output

1

Jury's answer

1

Checker comment

ok 1 number(s): "1"

16

Time: 77 ms, **memory:** 1564 KB

Verdict: OK

Input

199396 0

Participant's output

1

Jury's answer

1

Checker comment

ok 1 number(s): "1"

17

Time: 61 ms, **memory:** 1568 KB

Verdict: OK

Input

199395 0

Participant's output

1

Jury's answer

1

Checker comment

ok 1 number(s): "1"

18

Time: 15 ms, **memory:** 1556 KB

Verdict: OK

Input

0 199397

Participant's output

1

Jury's answer

1

Checker comment

ok 1 number(s): "1"

19

Time: 140 ms, **memory:** 1568 KB

Verdict: OK

Input

121147 78249

Participant's output

64290784

Jury's answer

64290784

Checker comment

ok 1 number(s): "64290784"

20

Time: 140 ms, **memory:** 1564 KB

Verdict: OK

Input

78250 121147

Participant's output

981737243

Jury's answer

981737243

Checker comment

ok 1 number(s): "981737243"

21

Time: 124 ms, **memory:** 1568 KB

Verdict: OK

Input

121146 78249

Participant's output

832902708

Jury's answer

832902708

Checker comment

ok 1 number(s): "832902708"

22

Time: 374 ms, **memory:** 1564 KB

Verdict: OK

Input

199585 199586

Participant's output

438320405

Jury's answer

438320405

Checker comment

ok 1 number(s): "438320405"

23

Time: 343 ms, **memory:** 1568 KB

Verdict: OK

Input

199586 199586

Participant's output

876640810

Jury's answer

876640810

Checker comment

ok 1 number(s): "876640810"

24

Time: 358 ms, **memory:** 1564 KB

Verdict: OK

Input

199585 199585

Participant's output

199771918

Jury's answer

199771918

Checker comment

ok 1 number(s): "199771918"

25

Time: 187 ms, **memory:** 1568 KB

Verdict: OK

Input

107344 159729

Participant's output

849320920

Jury's answer

849320920

Checker comment

ok 1 number(s): "849320920"

26

Time: 0 ms, **memory:** 1560 KB

Verdict: OK

Input

2954 1977

Participant's output

835530858

Jury's answer

835530858

Checker comment

ok 1 number(s): "835530858"

27

Time: 15 ms, **memory:** 1564 KB

Verdict: OK

Input

25580 17318

Participant's output

263898876

Jury's answer

263898876

Checker comment

ok 1 number(s): "263898876"

28

Time: 62 ms, **memory:** 1564 KB

Verdict: OK

Input

89671 32487

Participant's output

654128709

Jury's answer

654128709

Checker comment

ok 1 number(s): "654128709"

29

Time: 0 ms, **memory:** 1568 KB

Verdict: OK

Input

38 36

Participant's output

612

Jury's answer

612

Checker comment

ok 1 number(s): "612"

30

Time: 234 ms, **memory:** 1568 KB

Verdict: OK

Input

136749 183300

Participant's output

906576609

Jury's answer

906576609

Checker comment

ok 1 number(s): "906576609"

31

Time: 15 ms, **memory:** 1568 KB

Verdict: OK

Input

10000 10000

Participant's output

885988055

Jury's answer

885988055

Checker comment

ok 1 number(s): "885988055"

32

Time: 358 ms, **memory:** 1564 KB

Verdict: OK

Input

200000 199999

Participant's output

396481680

Jury's answer

396481680

Checker comment

ok 1 number(s): "396481680"

[Codeforces](#) (c) Copyright 2010-2016 Mike Mirzayanov

The only programming contests Web 2.0 platform

Server time: Dec/10/2016 15:37:14^{UTC-5} (c2).

Desktop version, switch to [mobile version](#).