CODEFORCES
Sponsored by Telegram

|
TheKing003KS | Logout
You have +416! Wow!

HOME TOP CONTESTS GYM PROBLEMSET GROUPS RATING EDU API CALENDAR HELP DELTIX ROUNDS 2021

Maintenance works on Round 739. Don't be surprised. Please, read the post.

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS HACKS STANDINGS CUSTOM INVOCATION

General

#	Author	Problem	Lang	Verdict	Time	Memory	Sent	Judged		
122312259	Practice: **TheKing003KS**	1475B - 22	GNU C++14	**Accepted**	109 ms	3652 KB	2021-07-13 13:06:51	2021-07-13 13:06:51		Compare

→ Source

Copy

```
#include<iostream>
#include<limits.h>
#include<math.h>
#include<vector>
#include<string>
#include<queue>
#include<stack>
#include<set>
#include<map>
#include<unordered_set>
#include<unordered_map>
#include<algorithm>
using namespace std;

#define ll long long
#define ull unsigned long long
#define modulo 1000000007
#define mp make_pair
#define pb push_back


int main()
{
```

```
    ll int tests;
    cin >> tests;
    while(tests--)
    {
        ll int n;
        cin >> n;
        bool flag = false;
        while(n > 0)
        {
            if(n%2020 == 0 || n%2021 == 0) {flag = true; break;}
            n -= 2021;
        }
        if(flag || n == 0) {cout << "YES";}
        else {cout << "NO";}

        cout << "\n";
    }

    return 0;
}

// ll int n;
// cin >> n;
// vector<ll int> arr(n);
// for(auto i = 0; i < n; i++) {cin >> arr[i];}

// for(auto i = 0; i < n; i++) {cout << arr[i] << " ";}

// sort(begin(arr),end(arr));
```

1

Time: 15 ms, **memory**: 3640 KB

Verdict: OK

Input

```
5
1
4041
4042
8081
8079
```

Participant's output

```
NO
YES
YES
YES
NO
```

Jury's answer

```
NO
YES
```

```
YES
YES
NO
```

Checker comment

```
ok 5 token(s): yes count is 3, no count is 2
```

2

Time: 62 ms, **memory**: 3636 KB

Verdict: OK

Input

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10000
1
2
3
4
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119
120
121
122
12...
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Participant's output

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Jury's answer

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NO...
```

Checker comment
ok 10000 token(s): yes count is 1052, no count is 8948

3

Time: 0 ms, **memory**: 3644 KB

Verdict: OK

Input
```
1
2020
```

Participant's output
```
YES
```

Jury's answer
```
YES
```

Checker comment
ok YES

4

Time: 0 ms, **memory**: 3636 KB

Verdict: OK

Input

```
3
2020
2021
4040
```

Participant's output

```
YES
YES
YES
```

Jury's answer

```
YES
YES
YES
```

Checker comment

```
ok 3 token(s): yes count is 3, no count is 0
```

5

Time: 46 ms, **memory**: 3648 KB

Verdict: OK

Input

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10000
1000000
1000000
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Participant's output

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Y...
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Jury's answer

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YES
Y...
```

Checker comment

```
ok 10000 token(s): yes count is 10000, no count is 0
```

6

Time: 62 ms, **memory**: 3644 KB

Verdict: OK

Input

```
10000
2022
2022
2022
2022
2022
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2022
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```
2022
2022
2022
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Participant's output

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NO...
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Checker comment

```
ok 10000 token(s): yes count is 0, no count is 10000
```

7

Time: 46 ms, **memory**: 3640 KB

Verdict: OK

Input

```
10000
2019
2019
2019
2019
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Participant's output

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NO...
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Checker comment

```
ok 10000 token(s): yes count is 0, no count is 10000
```

8

Time: 46 ms, **memory**: 3640 KB

Verdict: OK

Input

```
10000
999900
999900
999900
```

```
999900
999900
999900
```

```
YES
YES
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YES
Y...
```

Jury's answer

```
YES
YES
YES
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YES
YES
YES
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YES
YES
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YES
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YES
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YES
YES
Y...
```

Checker comment

```
ok 10000 token(s): yes count is 10000, no count is 0
```

9

Time: 61 ms, **memory**: 3644 KB

Verdict: OK

Input

```
10000
999901
999901
999901
999901
```

```
999901
999901
999901
```

```
999901
999901
999901
999901
999901
999901
999901
...
```

Participant's output

```
YES
YES
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YES
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Jury's answer

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YES
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YES
YES
Y...
```

Checker comment

```
ok 10000 token(s): yes count is 10000, no count is 0
```

10

Time: 61 ms, **memory**: 3648 KB

Verdict: OK

Input

```
10000
999999
999999
999999
```

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Participant's output

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Jury's answer

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YES
YES
Y...
```

Checker comment

```
ok 10000 token(s): yes count is 10000, no count is 0
```

11

Time: 109 ms, **memory**: 3640 KB

Verdict: OK

Input

```
10000
987654
987654
987654
987654
987654
987654
987654
987654
987654
987654
```

```
987654
987654
987654
```

```
987654
...
```

Participant's output

```
NO
NO
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Jury's answer

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NO
NO
NO
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Checker comment
ok 10000 token(s): yes count is 0, no count is 10000

12

Time: 93 ms, **memory**: 3644 KB

Verdict: OK

Input
10000
999619
999619
999619
999619
999619
999619
999619
999619
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Participant's output

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NO...
```

Checker comment

```
ok 10000 token(s): yes count is 0, no count is 10000
```

13

Time: 77 ms, **memory**: 3640 KB

Verdict: OK

Input

```
10000
998375
998375
998375
998375
998375
998375
998375
998375
998375
998375
998375
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998375
...
```

Participant's output

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NO
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NO...
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Jury's answer

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NO
NO
NO...
```

Checker comment

```
ok 10000 token(s): yes count is 0, no count is 10000
```

14

Time: 108 ms, **memory**: 3648 KB

Verdict: OK

Input

```
10000
999898
999898
999898
```

```
999898
999898
999898
999898
999898
999898
999898
999898
999898
999898
999898
999898
...
```

Participant's output

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NO
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NO...
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Checker comment

```
ok 10000 token(s): yes count is 0, no count is 10000
```

15

Time: 93 ms, **memory**: 3648 KB

Verdict: OK

Input

```
10000
999899
999899
999899
```

```
999899
999899
999899
```

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NO
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NO
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NO
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NO...
```

Jury's answer

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NO
NO...
```

Checker comment

```
ok 10000 token(s): yes count is 0, no count is 10000
```

16

Time: 62 ms, **memory**: 3644 KB

Verdict: OK

Input

```
10000
999995
999995
999995
999995
999995
999995
999995
999995
999995
```

```
999995
999995
999995
```

```
999995
999995
...
```

Participant's output

```
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
```

```
YES
YES
YES
```

```
YES
YES
Y...
```

Jury's answer

```
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
```

```
YES
YES
YES
```

```
YES
YES
Y...
```

Checker comment

```
ok 10000 token(s): yes count is 10000, no count is 0
```

17

Time: 109 ms, **memory**: 3640 KB

Verdict: OK

Input

```
9999
999987
999974
999961
999948
999935
999922
999909
999896
999883
999870
999857
999844
999831
999818
999805
999792
999779
999766
999753
999740
999727
999714
999701
999688
999675
999662
999649
999636
999623
999610
999597
999584
999571
999558
999545
999532
999519
999506
```

```
999493
999480
999467
999454
999441
999428
999415
999402
999389
999376
999363
999350
999337
999324
999311
999298
999285
999272
999259
999246
999233
999220
999207
999194
999181
9...
```

Participant's output

```
YES
YES
YES
YES
YES
YES
YES
NO
NO
NO
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YES...
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Jury's answer

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YES
YES
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YES
YES
YES
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NO
NO
YES...
```

Checker comment

```
ok 9999 token(s): yes count is 2289, no count is 7710
```

18

Time: 92 ms, **memory**: 3644 KB

Verdict: OK

Input

```
10000
999000
999000
999000
999000
999000
999000
999000
999000
999000
999000
999000
999000
999000
999000
999000
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999000
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999000
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NO...
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Jury's answer

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NO
NO
NO...
```

Checker comment

```
ok 10000 token(s): yes count is 0, no count is 10000
```

19

Time: 92 ms, **memory**: 3644 KB

Verdict: OK

Input

```
10000
990041
998466
996334
996498
999168
995723
991477
999356
996960
994462
995705
998143
993279
996826
999961
990491
992995
991941
994827
995436
992388
994603
993902
990153
990292
992381
997420
998715
999717
999894
995447
991724
994770
991537
991869
999911
995665
996297
997034
999894
998701
993809
991319
990330
997672
994664
995140
997711
998251
996868
995545
```

```
997642
992659
992754
990035
992858
998723
999741
997527
990778
992315
993035
992188
...
```

Participant's output

```
YES
NO
YES
NO
NO
NO
NO
NO
NO
NO
YES
NO
NO
YES
NO
NO
YES
NO
NO
NO
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YES
YES
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YES
YES
NO
YES
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YES
YES
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YES
YES
YES
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YES
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YES...
```

Jury's answer

```
YES
NO
YES
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YES
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YES
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YES
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YES
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YES
YES
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YES
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NO
NO
YES...
```

Checker comment

```
ok 10000 token(s): yes count is 2436, no count is 7564
```

20

Time: 109 ms, **memory**: 3644 KB

Verdict: OK

Input

```
10000
808401
808401
808401
```

```
808401
808401
808401
808401
808401
808401
808401
808401
808401
808401
808401
808401
808401
808401
808401
808401
808401
808401
...
```

Participant's output

```
NO
NO
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NO
NO...
```

Checker comment
ok 10000 token(s): yes count is 0, no count is 10000

21

Time: 30 ms, **memory**: 3648 KB

Verdict: OK

Input
```
1
2021
```

Participant's output
```
YES
```

Jury's answer
```
YES
```

Checker comment
ok YES

22

Time: 77 ms, **memory**: 3652 KB

Verdict: OK

Input
```
9999
999983
999966
999949
999932
999915
999898
999881
```

```
999864
999847
999830
999813
999796
999779
999762
999745
999728
999711
999694
999677
999660
999643
999626
999609
999592
999575
999558
999541
999524
999507
999490
999473
999456
999439
999422
999405
999388
999371
999354
999337
999320
999303
999286
999269
999252
999235
999218
999201
999184
999167
999150
999133
999116
999099
999082
999065
999048
999031
999014
998997
```

```
998980
998963
998946
998929
9...
```

Participant's output

```
YES
YES
YES
YES
YES
NO
NO
NO
NO
NO
NO
NO
NO
NO
NO
NO
NO
NO
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NO
NO
YES
YES
YES
```

```
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
Y...
```

Jury's answer

```
YES
YES
YES
YES
YES
NO
NO
NO
NO
NO
NO
NO
NO
NO
NO
NO
NO
NO
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NO
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YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
Y...
```

Checker comment

```
ok 9999 token(s): yes count is 2246, no count is 7753
```

23

Time: 78 ms, **memory**: 3636 KB

Verdict: OK

Input

```
9165
988270
988271
988272
988273
988274
988275
988276
988277
988278
988279
988280
988281
988282
988283
988284
988285
988286
988287
988288
988289
988290
988291
988292
988293
988294
988295
988296
988297
988298
988299
988300
988301
988302
988303
988304
988305
988306
988307
988308
988309
988310
988311
988312
988313
988314
988315
988316
988317
988318
988319
988320
```

```
988321
988322
988323
988324
988325
988326
988327
988328
988329
988330
988331
988332
9...
```

Participant's output

```
NO
NO
NO
NO
NO
NO
NO
NO
NO
NO
NO
NO
NO
NO
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NO
NO
NO
NO
NO
NO
NO
NO
NO
NO
NO...
```

Checker comment

```
ok 9165 token(s): yes count is 0, no count is 9165
```

24

Time: 77 ms, **memory**: 3648 KB

Verdict: OK

Input

```
10000
1000000
999983
999966
999949
999932
999915
999898
999881
999864
999847
999830
999813
999796
999779
999762
999745
999728
999711
999694
999677
999660
999643
999626
999609
999592
999575
999558
999541
999524
999507
```

```
999490
999473
999456
999439
999422
999405
999388
999371
999354
999337
999320
999303
999286
999269
999252
999235
999218
999201
999184
999167
999150
999133
999116
999099
999082
999065
999048
999031
999014
998997
998980
998963
998946...
```

Participant's output

```
YES
YES
YES
YES
YES
YES
NO
NO
NO
NO
NO
NO
NO
NO
NO
NO
NO
NO
```

```
NO
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YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
Y...
```

Jury's answer

```
YES
YES
YES
YES
YES
YES
NO
NO
NO
NO
NO
NO
NO
NO
NO
NO
NO
NO
NO
NO
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NO
NO
YES
YES
YES
YES
YES
YES
YES
YES
```

```
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
Y...
```

Checker comment

```
ok 10000 token(s): yes count is 2247, no count is 7753
```

25

Time: 77 ms, **memory**: 3640 KB

Verdict: OK

Input

```
10000
999041
999467
999334
999500
999169
999724
999478
999358
999962
999464
999705
999145
999281
999827
999961
999491
999995
999942
999827
999436
999391
999604
999902
999153
```

```
999292
999382
999421
999716
999718
999895
999447
999726
999771
999538
999869
999912
999667
999299
999035
999894
999703
999811
999322
999333
999673
999664
999141
999711
999253
999868
999547
999644
999662
999757
999037
999859
999723
999741
999529
999778
999316
999035
999190
...
```

Participant's output

```
NO
NO
NO
NO
NO
NO
NO
NO
YES
NO
NO
```

```
NO
NO
NO
YES
NO
YES
YES
NO
NO
NO
NO
YES
NO
NO
NO
NO
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YES
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NO
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YES
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YES
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YES
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YES
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YES
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YES
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NO
NO
NO
YES
YES
NO
NO
NO
NO
NO
YES
NO
NO
```

```
NO
NO
NO
NO
NO
YES
NO
NO
NO...
```

Jury's answer

```
NO
NO
NO
NO
NO
NO
NO
NO
YES
NO
NO
NO
NO
NO
YES
NO
YES
YES
NO
NO
NO
NO
YES
NO
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YES
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YES
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YES
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```
NO
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YES
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NO
YES
YES
NO
NO
NO
NO
NO
YES
NO
NO
NO
NO
NO
NO
NO
YES
NO
NO
NO...
```

Checker comment

```
ok 10000 token(s): yes count is 971, no count is 9029
```

26

Time: 46 ms, **memory**: 3648 KB

Verdict: OK

Input

```
10000
989800
989800
989800
989800
989800
989800
989800
989800
989800
989800
989800
```

```
989800
989800
989800
```

```
989800
...
```

Participant's output

```
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
```

```
YES
YES
YES
```

```
YES
Y...
```

Jury's answer

```
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
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YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
```

```
YES
Y...
```

Checker comment

```
ok 10000 token(s): yes count is 10000, no count is 0
```

27

Time: 77 ms, **memory**: 3636 KB

Verdict: OK

Input

```
9999
1000000
1000000
1000000
1000000
1000000
1000000
1000000
1000000
1000000
1000000
1000000
1000000
1000000
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1000000
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1000000
1000000
1000000
1000000
1000000
1000000
1000000
1000000
1...
```

Participant's output

```
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
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```
YES
YES
YES
```

```
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
Y...
```

Jury's answer

```
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
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YES
YES
YES
YES
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YES
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YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
Y...
```

Checker comment

```
ok 9999 token(s): yes count is 9999, no count is 0
```

28

Time: 92 ms, **memory**: 3644 KB

Verdict: OK

Input

```
10000
1000000
999999
999998
999997
999996
999995
999994
999993
999992
999991
999990
999989
999988
999987
999986
999985
999984
999983
999982
999981
999980
999979
999978
```

```
999977
999976
999975
999974
999973
999972
999971
999970
999969
999968
999967
999966
999965
999964
999963
999962
999961
999960
999959
999958
999957
999956
999955
999954
999953
999952
999951
999950
999949
999948
999947
999946
999945
999944
999943
999942
999941
999940
999939
999938...
```

Participant's output

```
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
```

```
YES
YES
YES
```

```
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
NO
NO...
```

Jury's answer

```
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
```

```
YES
YES
YES
YES
YES
YES
YES
YES
YES
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YES
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YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
```

```
YES
YES
YES
```

Participant's output
YES

Jury's answer
YES

Checker comment
ok YES

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