Refer the	sample	output for fo	ormat	ting				
Sample I								
10								
Sample (Dutput 1	li .						
4								
Sample	Input 2:							
5								
Sample	Output	2:						
3								
Explan								
	t case 1,							
					rust be distributed.			
But as minim	per Man num is 4.	isha only (\$1, Likewise deno	S2, \$3, minati	54) : ons c	point are enough to purchase any item ranging from \$1 to \$10. ould also be (\$1, \$2, \$3, \$5). Hence answer is still 4.	Hence		
	nt case 2							
Accor	rding to 1	Manish (\$1, \$2	\$3, \$4	1, \$5)	must be distributed.			
But a 3. Lik	s per Ma sewise, de	nisha only (\$1,	.52, \$1 ould a	l) cair	s are enough to purchase any item ranging from \$1 to 55. Here (\$1, \$2, \$4). Hence answer is spill 3.	oe minimum is		
					3,			
	Answer: (penalty regime: 0 %) 1 winclusesadio.b> 2 int main() [
	3 4	int Hyr-O; scanf("%d",Hr shile(n1-0) ();					
	6 7 8	n-n/2; r-r+1;						
	9) print("%s",:	r);					
	11							
						- 4		
1	lan	out Expected						
	V 20	4	Got 4	4				
	V 5	J	3	4				
	V 20	5	5	V				
	V 50	9	9.	×				
	V 10	00 10	10	4				

Passed all tests! 🗸

You are designing a poster which prints out numbers with a unique style applied to each of them. The styling is based on the number of closed paths or holes present in a given number. The number of holes that each of the digits from 0 to 9 have are equal to the number of closed paths in the digit. Their values are 1, 2, 3, 5, and 7 - 0 holes. 0, 4, 6, and 9 = 1 hole. 8 = 2 holes Given a number, you must determine the sum of the number of holes for all of its digits, for example, the number 819 has 3 holes.

Complete the program, it must must return an integer denoting the total number of holes in num.

Constraints

1 s num s 109

Input Format For Custom Testing

There is one line of test containing a single integer num, the value to process.

Sample Input

630

Sample Output

Explanation

Add the holes count for each digit, 6, 3 and 0. Return 1 + 0 + 1 = 2.

Sample Case 1

Sample Input

1288

Sample Output

Explanation

Add the holes count for each digit, 1, 2, B, B. Return 0 + 0 + 2 + 2 = 4

```
Answer: (penalty regime: 0 %)
```

1 Fincludecatdio.ho

2 - int main() {

int a,b,n-0;

scunf("Nd", Na); while(a)0) { 5.

b-al(10; if(b-0 || b-6 || b-9 || b-4) [8 n-n+1;

10 + plac if(b-8) [11 12 13 n-n/10;

14 printf("Md",n); 16

```
Refer the sample output for formatting
Sample Input 1:
10
Sample Output 1:
Sample Input 2:
Sample Output 2:
Explanation:
For test case 1, N=10.
According to Manish ($1, $2, $3,... $10) must be distributed.
flut as per Manisha only ($1, $2, $3, $4) coins are enough to purchase any item ranging from $1 to $10. Hence
minimum is 4. Likewise denominations could also be ($1, $2, $3, $5). Hence answer is still 4.
For test case 2, N=5.
According to Manish ($1, $2, $3, $4, $5) must be distributed.
But as per Manisha only ($1, $2, $3) coins are enough to purchase any item ranging from $1 to $5. Hence minimum is
Answer: (penalty regime: 0 %)
   1 | mincludecatdin.ho
    2 v int main() [
    3
          int n.r-0;
    4
           stanf("%J", &n);
    5.
          while(n!-0) {
    8
               n-n/2;
                r-r+1;
    ĸ
   18
           printf("%d",r);
   21 ]
```

Alice and Bob are playing a game called "Stone Game". Stone game is a two player game. Let N be the total number of stones. In each turn, a player can remove either one stone or four stones. The player who picks the last stone, wins. They follow the "Ladies First" norm. Hence Alice is always the one to make the first move. Your task is to find out whether Alice can win, if both play the game optimally.

Input Format

First line starts with T, which is the number of test cases. Each test case will contain N number of stones.

Output Format

Print "Yes" in the case Alice wins, else print "No".

Constraints

1<-T<-1000

1 <= N <= 10000

Sample Input and Output

Input

3

1

6

7

Output

Yes

Yes:

No

Answer: (penalty regime: 0 %)

```
1 Fincludecatdlo.b>
2 - int main() (
        int T.1-8,n,t;
       scani("%d",%T);
while(i<1) {
4
           sconf("Kd",8m);
 G
            t-n/4;
26.4
            if(t%2--0 AR n%2--0) [
9
                printf("No\n");
10
            else if(#10--1 && m10--1) (
11 .
12
               printf("No\n");
15
14 .
            else [
15
               pristf("Yes\n");
16
11
            1++2
18
        )
19 }
```

	Input	Expected	Got	
4	610	>	2	1
~	1288	4	A	v
Passe	d all test	tet o		

task to make a purchase of items at the Island easier by distributing various coins with different values. Manish has come up with a solution that if we make coins category starting from \$1 till the maximum price of the item present on Island, then we can purchase any item easily. He added the following example to preve his point.

The problem solvers have found a new Island for coding and named it as Philaiand. These smart people were given a

Let's suppose the maximum price of an item is 55 then we can make coins of (\$1, \$2, \$3, \$4, \$5) to purchase any item ranging from \$1 till \$5.

Now Manisha, being a keen observer suggested that we could actually minimize the number of coins required and gave following distribution (\$1, \$2, \$3). According to him any item can be purchased one time ranging from \$1 to \$5. Everyone was impressed with both of them. Your task is to help Manisha come up with a minimum number of

Input Format

Contains an integer N denoting the maximum price of the item present on Philaland.

denominations for any arbitrary max price in Philaland.

Output Format

Print a single line denoting the minimum number of denominations of coins required.

Constraints

1<=1<=100 1<-N<-5000

Refer the sample output for formatting

Sample Input 1:

10

Sample Output 1:

Sample Input 2:

Sample Output 2:

Explanation:

For lest case 1, N=10.

According to Manish (\$1, \$2, \$3,... \$10) must be distributed.

But as per Manisha only (\$1, \$2, \$3, \$4) coins are enough to purchase any item ranging from \$1 to \$10. Hence

minimum is 4. Likewise denominations could also be (\$1, \$2, \$3, \$5). Hence answer is still 4.

For test case 2, N=5.

According to Manish (\$1, \$2, \$3, \$4, \$5) must be distributed.

A set of N numbers (separated by one space) is passed as input to the program. The program must identify the count of numbers where the number is odd number.

Input Format:

The first line will contain the N numbers separated by one space.

Boundary Conditions:

The value of the numbers can be from -99999999 to 99999999

Output Format:

The count of numbers where the numbers are odd numbers

Example Input / Output 1:

Input:

5 10 15 20 25 30 35 40 45 50

Output

Explanation:

The numbers meeting the criteria are 5, 15, 25, 35, 45.

1 (a-101a) 1 printf("A(",x); return 8;

Answer: (penalty regime: 0 %) 1 discindestations

int main() (int n,x-0; while(scart("%1",%n)--1) {

Input Expected Got 5 10 15 20 25 10 15 40 45 50 5 15

Passed all tests! <

Given a number N, return true if and only if it is a confusing number, which satisfies the following condition:

We can rotate digits by 180 degrees to form new digits. When 0, 1, 6, 8, 9 are rotated 180 degrees, they become 0, 1, 9, 8, 6 respectively. When 2, 3, 4, 5 and 7 are rotated 180 degrees, they become invalid. A confusing number is a number that when rotated 180 degrees becomes a different number with each digit valid.

Example 1:

6->9

Input: 6

```
Example 1:
6->9
Input: 6
Output true
Explanation
We get 9 after rotating 6, 9 is a valid number and 91=6.
Example 2:
89 -> 68
Input: 89
Output true
Explanation:
We get 68 after rotating 89, 86 is a valid number and 861-89.
Example 3:
11 -> 11
Input: 11
Output false
Explanation:
We get 11 after rotating 11, 11 is a valid number but the value remains the same, thus 11 is not a confusing number.
1. 0 <- N <- 10°9
2. After the rotation we can ignore leading zeros, for example if after rotation we have 0008 then this number is
considered as just 8.
Answer: (penalty regime: 0 %)
1 Finciude(stdlo.k)
    2 + int main() {
           int e.x.y-1;
             scand("No", lin);
            while(n1-0 ML y--1) (
                x-n=10;n-n/10;
                1 (x-2 || x-1 || x-4 || x-7) {
    y+4; } }
           if(y--1) [
    9+
                printf("true"); }
   10
```

12 + clse [printf("felse"); } 13 15

	Input	Expected	Got	
~	6	true	trup	4
~	89	true	true	V
~	25	false	tulse	Y

Passed all tests: <

A nutritionist is labeling all the best power foods in the market. Every food item arranged in a single line, will have a value beginning from 1 and increasing by 1 for each, until all items have a value associated with them. An item's value is the same as the number of macronutrients it has. For example, food item with value 1 has 1 macronutrient, food item with value 2 has 2 macronutrients, and incrementing in this fashion.

The nutritionist has to recommend the best combination to patients, i.e. maximum total of macronutrients. However, the nutritionist must avoid prescribing a particular sum of macronutrients (an 'unhealthy' number), and this sum is known. The nutritionist chooses food items in the increasing order of their value. Compute the highest total of macronutrients that can be prescribed to a patient, without the sum matching the given 'unhealthy' number.

Here's an illustration:

Given 4 food items (hence value: 1,2,3 and 4), and the unhealthy sum being 6 macronutrients, on choosing items 1, 2, 3 -> the sum is 6, which matches the 'unhealthy' sum. Hence, one of the three needs to be skipped. Thus, the best