



02:04:54 HRS MIN SEC

August Easy '21

LIVE

Aug 07, 2021, 09:30 AM IST - Aug 07, 2021, 12:30 PM IST

INSTRUCTIONS	PROBLEMS	SUBMISSIONS	LEADERBOARD	ANALYTICS	JUDGE
← Problems / Divide the	digits				
Divide the	digits				
Max. score: 100					

You are given a number N.

You are required to form two numbers $oldsymbol{X}$ and $oldsymbol{Y}$ such that:

- The sum of frequency of each digit in X and Y is equal to frequency of that digit in N.
- ullet The sum of numbers $oldsymbol{X}$ and $oldsymbol{Y}$ must be minimum.

Your task is to determine the minimum possible sum of \boldsymbol{X} and \boldsymbol{Y} .

Input format

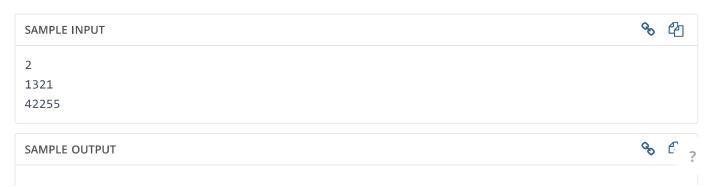
- ullet The first line contains an integer T that denotes the number of test cases.
- For each test case:
 - \circ The first line contains an integer N.

Output format

For each test case, you are required to print the minimum possible sum of $m{X}$ and $m{Y}$ in a new line.

Constraints

$$1 \le T \le 10^5$$
$$10 \le N \le 2 \times 10^{18}$$



```
25
270
```

Explanation

For the first test case:

• Minimum possible sum is 25, which can be achieved if X = 12, Y = 13.

For the second test case:

• Minimum possible sum is 270, which can be achieved if X = 245, Y = 25.

Time Limit:	1.0 sec(s) for each input file.				
Memory Limit:	256 MB				
Source Limit:	1024 KB				
Marking Scheme:	Score is assigned if any testcase passes.				
Allowed Languages:	Bash, C, C++, C++14, C++17, Clojure, C#, D, Erlang, F#, Go, Groovy, Haskell, Java, Java 8, Java 14, JavaScript(Rhino),				
	JavaScript(Node.js), Julia, Kotlin, Lisp, Lisp (SBCL), Lua, Objective-C, OCaml, Octave, Pascal, Perl, PHP, Python,				
	Python 3, Python 3.8, Racket, Ruby, Rust, Scala, Swift-4.1, Swift, TypeScript, Visual Basic				

CODE EDITOR

```
C (gcc 5.4.0)
                                       Save
    /*
1
    // Sample code to perform I/O:
2
    #include <stdio.h>
 3
4
 5
    int main(){
 6
       int num;
       scanf("%d", &num);
7
                                              // Reading input from ST
       8
9
    }
10
    // Warning: Printing unwanted or ill-formatted data to output will cause
11
    the test cases to fail
12
    */
13
    // Write your code here
14
15
```



1:1 vscode

☑ Provide custom input

COMPILE & TEST

SUBMIT

" Tip: You can submit any number of times you want. Your best submission is considered for computing total score.

Your Rating: Tweet



	Resources	Solutions	CompanyService & Support About Us	
	Tech Recruitment Blog	Assess Developers		
	Product Guides	Conduct Remote	Press	Technical Support
+1-650-461-4192	Developer hiring guide	Interviews	Careers	Contact Us
contact@hackerearth.cor	nEngineering Blog	Assess University Talent		
	Developers Blog	Organize Hackathons		
f ¥ in	Developers Wiki			
	Competitive Programming			
	Start a Programming Club			
	Practice Machine Learning			

 $\ensuremath{\mathbb{C}}$ 2021 HackerEarth All rights reserved | Terms of Service | Privacy Policy