

PRACTICE

COMPETE

JOBS

LEADERBOARD

Q Search



O punnammani1 ∨

Practice > Python > Regex and Parsing > Validating Credit Card Numbers

Validating Credit Card Numbers ☆

66/115 challenges solved

Rank: **5410** | Points: **1225** ①



DOSHI

Your Validating Credit Card Numbers submission got 40.00 points. Share Tweet

Try the next challenge

Problem Su	bmissions	Leaderboard	Discussions	Editorial 🖰)
You and Fredrick are good f					Author Difficulty
is asking for your help!					Max Score
A valid credit card from AB 0	CD Bank has the	e following characteristic	S:		Submitted By
► It must start with a 4 , 5 c	or 6 .				NEED HELP?
▶ It must contain exactly 16 digits.					View discus
▶ It must only consist of digits (0-9).					W View editori
▶ It may have digits in groups of 4 , separated by <i>one</i> hyphen "-".					
▶ It must NOT use any other separator like ' ' , '_', etc.					
▶ It must NOT have 4 or more consecutive repeated digits.					RATE THIS CHAL
Examples:					公 公 公 公
•					MORE DETAIL:
Valid Credit Card Numbers					l Davida ada
4253625879615786					
4424424424442444					⊥ Download s
5122-2368-7954-3214					Suggest Edi
Invalid Credit Card Numbers					f y in
42536258796157867	#17 digit	s in card number → 1	Invalid		
4424444424442444	#Consecut	ive digits are repe	ating 4 or more tin	mes →	
Invalid 5122-2368-7954 - 32	14 #Separat	ors other than '-' a	re used → Invalid		
44244x4424442444		non digit characte			
0525362587961578	#Doesn't	start with 4, 5 or 6	→ Invalid		
Input Format					
The first line of input contai	ns an integer Λ	7.			
The next $oldsymbol{N}$ lines contain cr	edit card numbe	ers.			
Constraints					

Difficulty Mo	edium			
Max Score	40			
Submitted By	4939			
NEED HELP?				
View discussions				
☐ View editorial				
▼ View top submissions				
RATE THIS CHALLENGE				
公 公 公 公 公				
MORE DETAILS				
Suggest Edits				

Constraints

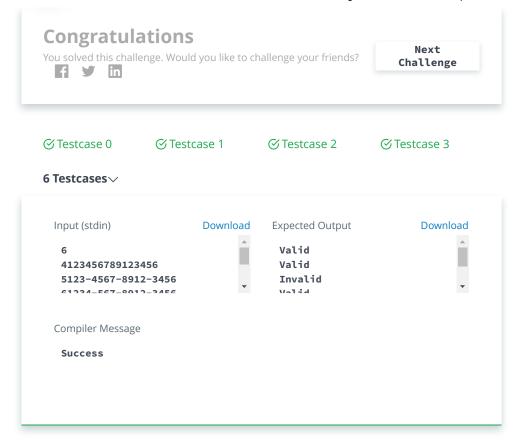
0 < N < 100

Output Format

```
Print 'Valid' if the credit card number is valid. Otherwise, print 'Invalid'. Do not print the quotes.
Sample Input
  4123456789123456
  5123-4567-8912-3456
  61234-567-8912-3456
  4123356789123456
  5133-3367-8912-3456
  5123 - 3567 - 8912 - 3456
Sample Output
  Valid
  Valid
  Invalid
  Valid
  Invalid
  Invalid
Explanation
4123456789123456: Valid
5123-4567-8912-3456 : Valid
61234-567-8912-3456: Invalid, because the card number is not divided into equal groups of 4.
4123356789123456: Valid
5133-3367-8912-3456 : Invalid, consecutive digits 3333 is repeating 4 times.
5123 — 4567 — 8912 — 3456 : Invalid, because space ' ' and - are used as separators.
```

```
K N O
 Current Buffer (saved locally, editable)
                                            Python 3
                                      3
  1 import re
  2 ▼ TESTER = re.compile(
          r"^"
          r"(?!.*(\d)(-?\1){3})"
  4
  5
          r"[456]"
  6
          r"\d{3}"
  7
          r"(?:-?\d{4}){3}"
          r"$")
  8
  9 ▼ for _ in range(int(input().strip())):
 10
          print("Valid" if TESTER.search(input().strip()) else "Invalid")
                                                                Line: 10 Col: 68
                                                                 Submit Code
                                                  Run Code
Test against custom input
```





Contest Calendar | Blog | Scoring | Environment | FAQ | About Us | Support | Careers | Terms Of Service | Privacy Policy | Request a Feature