#### [Matching Specific String](https://www.hackerrank.com/challenges/matching-specific-string?isFullScreen=true)

Regex\_Pattern = r'hackerrank' # Do not delete 'r'.

#### [Matching Anything But a Newline](https://www.hackerrank.com/challenges/matching-anything-but-new-line?isFullScreen=true)

regex\_pattern = r"^...\....\....\....$" # Do not delete 'r'.

#### [Matching Digits & Non-Digit Characters](https://www.hackerrank.com/challenges/matching-digits-non-digit-character?isFullScreen=true)

Regex\_Pattern = r"\d\d(.)\d\d(.)\d\d\d\d" # Do not delete 'r'.

#### [Matching Whitespace & Non-Whitespace Character](https://www.hackerrank.com/challenges/matching-whitespace-non-whitespace-character?isFullScreen=true)

Regex\_Pattern = r"\S\S\s\S\S\s\S\S" # Do not delete 'r'.

#### [Matching Word & Non-Word Character](https://www.hackerrank.com/challenges/matching-word-non-word?isFullScreen=true)

Regex\_Pattern = r"\w\w\w\W\w\w\w\w\w\w\w\w\w\w\W\w\w\w" # Do not delete 'r'.

#### [Matching Start & End](https://www.hackerrank.com/challenges/matching-start-end?isFullScreen=true)

Regex\_Pattern = r"^\d\S{4}\.$" # Do not delete 'r'.

#### [Matching Specific Characters](https://www.hackerrank.com/challenges/matching-specific-characters?isFullScreen=true)

Regex\_Pattern = r'^[123][120][xs0][30Aa][xsu][.,]$' # Do not delete 'r'.

#### [Excluding Specific Characters](https://www.hackerrank.com/challenges/excluding-specific-characters?isFullScreen=true)

Regex\_Pattern = r'^[^\d][^aeiou][^bcDF][^\s][^AEIOU][^.,]$' # Do not delete 'r'.

#### [Matching Character Ranges](https://www.hackerrank.com/challenges/matching-range-of-characters?isFullScreen=true)

Regex\_Pattern = r'^[a-z][1-9][^a-z][^A-Z][A-Z].\*' # Do not delete 'r'.

#### [Matching {x} RepetitionS](https://www.hackerrank.com/challenges/matching-x-repetitions?isFullScreen=true)

[Regex\_Pattern = r'^[a-zA-Z02468]{40}[\s13579]{5}$' # Do not delete 'r'.](https://www.hackerrank.com/challenges/matching-x-repetitions?isFullScreen=true)

#### [Matching {x, y} Repetitions](https://www.hackerrank.com/challenges/matching-x-y-repetitions?isFullScreen=true)

[Regex\_Pattern = r'^\d{1,2}[a-zA-Z]{3,}\.{0,3}$' # Do not delete 'r'.](https://www.hackerrank.com/challenges/matching-x-y-repetitions?isFullScreen=true)

#### [Matching Zero Or More Repetitions](https://www.hackerrank.com/challenges/matching-zero-or-more-repetitions?isFullScreen=true)

[Regex\_Pattern = r'^\d{2,}[a-z]\*[A-Z]\*$' # Do not delete 'r'.](https://www.hackerrank.com/challenges/matching-zero-or-more-repetitions?isFullScreen=true)

#### [Matching Ending Items](https://www.hackerrank.com/challenges/matching-ending-items?isFullScreen=true)

[Regex\_Pattern = r'^[a-zA-Z]\*s$' # Do not delete 'r'.](https://www.hackerrank.com/challenges/matching-ending-items?isFullScreen=true)

#### [Matching Word Boundaries](https://www.hackerrank.com/challenges/matching-word-boundaries?isFullScreen=true)

[Regex\_Pattern = r'\b[aeiouAEIOU][a-zA-Z]\*\b' # Do not delete 'r'.](https://www.hackerrank.com/challenges/matching-word-boundaries?isFullScreen=true)

#### [Capturing & Non-Capturing Groups](https://www.hackerrank.com/challenges/capturing-non-capturing-groups?isFullScreen=true)

[Regex\_Pattern = r'(ok){3,}' # Do not delete 'r'.](https://www.hackerrank.com/challenges/capturing-non-capturing-groups?isFullScreen=true)

#### [Alternative Matching](https://www.hackerrank.com/challenges/alternative-matching?isFullScreen=true)

[Regex\_Pattern = r'^(Mr\.|Mrs\.|Ms\.|Dr\.|Er\.)([a-zA-Z]+)$' # Do not delete 'r'.](https://www.hackerrank.com/challenges/alternative-matching?isFullScreen=true)

#### [Matching Same Text Again & Again](https://www.hackerrank.com/challenges/matching-same-text-again-again?isFullScreen=true)

[Regex\_Pattern = r'^([a-z]\w\s\W\d\D[A-Z][a-zA-Z][aieouAEIOU]\S)\1$' # Do not delete 'r'.](https://www.hackerrank.com/challenges/matching-same-text-again-again?isFullScreen=true)

#### [Backreferences To Failed Groups](https://www.hackerrank.com/challenges/backreferences-to-failed-groups?isFullScreen=true)

[Regex\_Pattern = r"^\d{2}(-?)\d{2}\1\d{2}\1\d{2}$" # Do not delete 'r'.](https://www.hackerrank.com/challenges/backreferences-to-failed-groups?isFullScreen=true)

#### [Branch Reset Groups](https://www.hackerrank.com/challenges/branch-reset-groups?isFullScreen=true)

[$Regex\_Pattern = '/^\d{2}(-(?:--)?|\.|:)\d{2}\1\d{2}\1\d{2}$/';](https://www.hackerrank.com/challenges/branch-reset-groups?isFullScreen=true)

#### [Forward References](https://www.hackerrank.com/challenges/forward-references?isFullScreen=true)

[$Regex\_Pattern = '/^(\\2tic|(tac))\*$/'; //Do not delete '/'. Replace \_\_\_\_\_\_\_\_\_\_ with your regex.](https://www.hackerrank.com/challenges/forward-references?isFullScreen=true)

#### [Detect HTML links](https://www.hackerrank.com/challenges/detect-html-links?isFullScreen=true)

[# Enter your code here. Read input from STDIN. Print output to STDOUT](https://www.hackerrank.com/challenges/branch-reset-groups?isFullScreen=true)

[import re](https://www.hackerrank.com/challenges/branch-reset-groups?isFullScreen=true)

[n = int(input())](https://www.hackerrank.com/challenges/branch-reset-groups?isFullScreen=true)

[l = []](https://www.hackerrank.com/challenges/branch-reset-groups?isFullScreen=true)

[for i in range(n):](https://www.hackerrank.com/challenges/branch-reset-groups?isFullScreen=true)

[x = str(input())](https://www.hackerrank.com/challenges/branch-reset-groups?isFullScreen=true)

[l.append(x)](https://www.hackerrank.com/challenges/branch-reset-groups?isFullScreen=true)

[pattern = re.compile('<a href="(.+?)".\*?>(.\*?)<\/a>')](https://www.hackerrank.com/challenges/branch-reset-groups?isFullScreen=true)

[for x in l:](https://www.hackerrank.com/challenges/branch-reset-groups?isFullScreen=true)

[a = re.findall(pattern, x)](https://www.hackerrank.com/challenges/branch-reset-groups?isFullScreen=true)

[for z in a:](https://www.hackerrank.com/challenges/branch-reset-groups?isFullScreen=true)

[y1 = z[0].strip()](https://www.hackerrank.com/challenges/branch-reset-groups?isFullScreen=true)

[y2 = z[1].strip()](https://www.hackerrank.com/challenges/branch-reset-groups?isFullScreen=true)

[p2 = re.compile('[<.\*>]\*(.\*?)<.\*>')](https://www.hackerrank.com/challenges/branch-reset-groups?isFullScreen=true)

[y2 = re.findall(p2, y2)](https://www.hackerrank.com/challenges/branch-reset-groups?isFullScreen=true)

[if(len(y2) != 0):](https://www.hackerrank.com/challenges/branch-reset-groups?isFullScreen=true)

[y2 = str(y2)](https://www.hackerrank.com/challenges/branch-reset-groups?isFullScreen=true)

[y2 = y2[2:len(y2)-2]](https://www.hackerrank.com/challenges/branch-reset-groups?isFullScreen=true)

[zz = y2.find('>')](https://www.hackerrank.com/challenges/branch-reset-groups?isFullScreen=true)

[y2 = y2[zz+1 : len(y2)]](https://www.hackerrank.com/challenges/branch-reset-groups?isFullScreen=true)

[print(y1+','+y2)](https://www.hackerrank.com/challenges/branch-reset-groups?isFullScreen=true)

[else:](https://www.hackerrank.com/challenges/branch-reset-groups?isFullScreen=true)

[print(y1 + ',' + z[1].strip())](https://www.hackerrank.com/challenges/branch-reset-groups?isFullScreen=true)

#### [Detect HTML Tags](https://www.hackerrank.com/challenges/detect-html-tags?isFullScreen=true)

[# Enter your code here. Read input from STDIN. Print output to STDOUT](https://www.hackerrank.com/challenges/detect-html-tags?isFullScreen=true)

[import re](https://www.hackerrank.com/challenges/detect-html-tags?isFullScreen=true)

[pattern = re.compile('<\\s\*([a-zA-Z0-9]\*)\\s\*>?')](https://www.hackerrank.com/challenges/detect-html-tags?isFullScreen=true)

[n = int(input())](https://www.hackerrank.com/challenges/detect-html-tags?isFullScreen=true)

[tag\_list = list()](https://www.hackerrank.com/challenges/detect-html-tags?isFullScreen=true)

[for i in range(n):](https://www.hackerrank.com/challenges/detect-html-tags?isFullScreen=true)

[x = str(input())](https://www.hackerrank.com/challenges/detect-html-tags?isFullScreen=true)

[y = re.findall(pattern, x)](https://www.hackerrank.com/challenges/detect-html-tags?isFullScreen=true)

[for z in y:](https://www.hackerrank.com/challenges/detect-html-tags?isFullScreen=true)

[if(len(z) != 0 and z not in tag\_list):](https://www.hackerrank.com/challenges/detect-html-tags?isFullScreen=true)

[tag\_list.append(z)](https://www.hackerrank.com/challenges/detect-html-tags?isFullScreen=true)

[tag\_list.sort()](https://www.hackerrank.com/challenges/detect-html-tags?isFullScreen=true)

[for i in range(len(tag\_list)):](https://www.hackerrank.com/challenges/detect-html-tags?isFullScreen=true)

[if(i == len(tag\_list) - 1):](https://www.hackerrank.com/challenges/detect-html-tags?isFullScreen=true)

[print(tag\_list[i])](https://www.hackerrank.com/challenges/detect-html-tags?isFullScreen=true)

[else:](https://www.hackerrank.com/challenges/detect-html-tags?isFullScreen=true)

[print(tag\_list[i],end=";")](https://www.hackerrank.com/challenges/detect-html-tags?isFullScreen=true)

#### [Find A Sub-Word](https://www.hackerrank.com/challenges/find-substring?isFullScreen=true)

[import re](https://www.hackerrank.com/challenges/find-substring?isFullScreen=true)

[data = []](https://www.hackerrank.com/challenges/find-substring?isFullScreen=true)

[for i in range(int(input().strip())):](https://www.hackerrank.com/challenges/find-substring?isFullScreen=true)

[data.append(input().strip())](https://www.hackerrank.com/challenges/find-substring?isFullScreen=true)

[for i in range(int(input().strip())):](https://www.hackerrank.com/challenges/find-substring?isFullScreen=true)

[query = input().strip()](https://www.hackerrank.com/challenges/find-substring?isFullScreen=true)

[matches\_count = 0](https://www.hackerrank.com/challenges/find-substring?isFullScreen=true)

[for e in data:](https://www.hackerrank.com/challenges/find-substring?isFullScreen=true)

[matches = re.findall(r'[A-Za-z\_]'+query+r'[A-Za-z\_]', e)](https://www.hackerrank.com/challenges/find-substring?isFullScreen=true)

[matches\_count += len(matches)](https://www.hackerrank.com/challenges/find-substring?isFullScreen=true)

[print(matches\_count)](https://www.hackerrank.com/challenges/find-substring?isFullScreen=true)

#### [Alien Username](https://www.hackerrank.com/challenges/alien-username?isFullScreen=true)

[# Enter your code here. Read input from STDIN. Print output to STDOUT](https://www.hackerrank.com/challenges/alien-username?isFullScreen=true)

[import re](https://www.hackerrank.com/challenges/alien-username?isFullScreen=true)

[pattern = re.compile('^[\_\.][0-9]+[a-zA-Z]\*[\_]?$')](https://www.hackerrank.com/challenges/alien-username?isFullScreen=true)

[n = int(input())](https://www.hackerrank.com/challenges/alien-username?isFullScreen=true)

[for i in range(n):](https://www.hackerrank.com/challenges/alien-username?isFullScreen=true)

[x = str(input())](https://www.hackerrank.com/challenges/alien-username?isFullScreen=true)

[if(len(re.findall(pattern,x)) != 0):](https://www.hackerrank.com/challenges/alien-username?isFullScreen=true)

[print("VALID")](https://www.hackerrank.com/challenges/alien-username?isFullScreen=true)

[else:](https://www.hackerrank.com/challenges/alien-username?isFullScreen=true)

[print("INVALID")](https://www.hackerrank.com/challenges/alien-username?isFullScreen=true)

#### [IP Address Validation](https://www.hackerrank.com/challenges/ip-address-validation?isFullScreen=true)

[# Enter your code here. Read input from STDIN. Print output to STDOUT](https://www.hackerrank.com/challenges/ip-address-validation?isFullScreen=true)

[import re](https://www.hackerrank.com/challenges/ip-address-validation?isFullScreen=true)

[p1 = re.compile('^(((2[0-5][0-5])|(1[0-9][0-9])|([1-9][0-9])|(\d))\.){3}((2[0-5][0-5])|(1[0-9][0-9])|([1-9][0-9])|(\d))$')](https://www.hackerrank.com/challenges/ip-address-validation?isFullScreen=true)

[p2 = re.compile('^([a-f0-9]{1,4}:){7}[a-f0-9]{4}$')](https://www.hackerrank.com/challenges/ip-address-validation?isFullScreen=true)

[n = int(input())](https://www.hackerrank.com/challenges/ip-address-validation?isFullScreen=true)

[for i in range(n):](https://www.hackerrank.com/challenges/ip-address-validation?isFullScreen=true)

[x = str(input())](https://www.hackerrank.com/challenges/ip-address-validation?isFullScreen=true)

[if(len(re.findall(p1, x)) != 0):](https://www.hackerrank.com/challenges/ip-address-validation?isFullScreen=true)

[print("IPv4")](https://www.hackerrank.com/challenges/ip-address-validation?isFullScreen=true)

[elif(len(re.findall(p2, x)) != 0):](https://www.hackerrank.com/challenges/ip-address-validation?isFullScreen=true)

[print("IPv6")](https://www.hackerrank.com/challenges/ip-address-validation?isFullScreen=true)

[else:](https://www.hackerrank.com/challenges/ip-address-validation?isFullScreen=true)

[print("Neither")](https://www.hackerrank.com/challenges/ip-address-validation?isFullScreen=true)

#### [Find a Word](https://www.hackerrank.com/challenges/find-a-word?isFullScreen=true)

[# Enter your code here. Read input from STDIN. Print output to STDOUT](https://www.hackerrank.com/challenges/find-a-word?isFullScreen=true)

[import re](https://www.hackerrank.com/challenges/find-a-word?isFullScreen=true)

[n = int(input())](https://www.hackerrank.com/challenges/find-a-word?isFullScreen=true)

[sen = list()](https://www.hackerrank.com/challenges/find-a-word?isFullScreen=true)

[for i in range(n):](https://www.hackerrank.com/challenges/find-a-word?isFullScreen=true)

[x = str(input())](https://www.hackerrank.com/challenges/find-a-word?isFullScreen=true)

[sen.append(x)](https://www.hackerrank.com/challenges/find-a-word?isFullScreen=true)

[t = int(input())](https://www.hackerrank.com/challenges/find-a-word?isFullScreen=true)

[for i in range(t):](https://www.hackerrank.com/challenges/find-a-word?isFullScreen=true)

[x = str(input())](https://www.hackerrank.com/challenges/find-a-word?isFullScreen=true)

[p = re.compile('(?:\W|\A)'+x+'(?=\W|\Z)')](https://www.hackerrank.com/challenges/find-a-word?isFullScreen=true)

[c = 0](https://www.hackerrank.com/challenges/find-a-word?isFullScreen=true)

[for y in sen:](https://www.hackerrank.com/challenges/find-a-word?isFullScreen=true)

[c += len(re.findall(p, y))](https://www.hackerrank.com/challenges/find-a-word?isFullScreen=true)

[print(c)](https://www.hackerrank.com/challenges/find-a-word?isFullScreen=true)

#### [Detect the Email Addresses](https://www.hackerrank.com/challenges/detect-the-email-addresses?isFullScreen=true)

[# Enter your code here. Read input from STDIN. Print output to STDOUT](https://www.hackerrank.com/challenges/detect-the-email-addresses?isFullScreen=true)

[import re](https://www.hackerrank.com/challenges/detect-the-email-addresses?isFullScreen=true)

[p = re.compile('[\_0-9a-zA-Z]+[\_\.0-9a-zA-Z]\*@[0-9a-zA-Z\_]+[\.0-9a-zA-Z\_]+[0-9a-zA-Z\_]+')](https://www.hackerrank.com/challenges/detect-the-email-addresses?isFullScreen=true)

[n = int(input())](https://www.hackerrank.com/challenges/detect-the-email-addresses?isFullScreen=true)

[l = []](https://www.hackerrank.com/challenges/detect-the-email-addresses?isFullScreen=true)

[for i in range(n):](https://www.hackerrank.com/challenges/detect-the-email-addresses?isFullScreen=true)

[x = str(input())](https://www.hackerrank.com/challenges/detect-the-email-addresses?isFullScreen=true)

[r = re.findall(p, x)](https://www.hackerrank.com/challenges/detect-the-email-addresses?isFullScreen=true)

[for z in r:](https://www.hackerrank.com/challenges/detect-the-email-addresses?isFullScreen=true)

[if(z not in l):](https://www.hackerrank.com/challenges/detect-the-email-addresses?isFullScreen=true)

[l.append(z)](https://www.hackerrank.com/challenges/detect-the-email-addresses?isFullScreen=true)

[l.sort()](https://www.hackerrank.com/challenges/detect-the-email-addresses?isFullScreen=true)

[for i in range(len(l)):](https://www.hackerrank.com/challenges/detect-the-email-addresses?isFullScreen=true)

[if(i == len(l)-1):](https://www.hackerrank.com/challenges/detect-the-email-addresses?isFullScreen=true)

[print(l[i])](https://www.hackerrank.com/challenges/detect-the-email-addresses?isFullScreen=true)

[else:](https://www.hackerrank.com/challenges/detect-the-email-addresses?isFullScreen=true)

[print(l[i],end=";")](https://www.hackerrank.com/challenges/detect-the-email-addresses?isFullScreen=true)

#### [Detect the Domain Name](https://www.hackerrank.com/challenges/detect-the-domain-name?isFullScreen=true)

[# Enter your code here. Read input from STDIN. Print output to STDOUT](https://www.hackerrank.com/challenges/detect-the-domain-name?isFullScreen=true)

[import re](https://www.hackerrank.com/challenges/detect-the-domain-name?isFullScreen=true)

[pattern = '(http|https)\\://(www.|ww2.|)([a-zA-Z0-9\\-\\.]+)(\\.[a-zA-Z]+)(/\\S\*)?'](https://www.hackerrank.com/challenges/detect-the-domain-name?isFullScreen=true)

[regex = re.compile(pattern)](https://www.hackerrank.com/challenges/detect-the-domain-name?isFullScreen=true)

[s = set()](https://www.hackerrank.com/challenges/detect-the-domain-name?isFullScreen=true)

[for i in range(int(input())):](https://www.hackerrank.com/challenges/detect-the-domain-name?isFullScreen=true)

[string = input()](https://www.hackerrank.com/challenges/detect-the-domain-name?isFullScreen=true)

[iterator = regex.finditer(string)](https://www.hackerrank.com/challenges/detect-the-domain-name?isFullScreen=true)

[if iterator:](https://www.hackerrank.com/challenges/detect-the-domain-name?isFullScreen=true)

[for match in iterator:](https://www.hackerrank.com/challenges/detect-the-domain-name?isFullScreen=true)

[s.add(match.group(3)+match.group(4))](https://www.hackerrank.com/challenges/detect-the-domain-name?isFullScreen=true)

[print(';'.join(t for t in sorted(s)))](https://www.hackerrank.com/challenges/detect-the-domain-name?isFullScreen=true)

#### [Building a Smart IDE: Identifying comments](https://www.hackerrank.com/challenges/ide-identifying-comments?isFullScreen=true)

[import java.io.\*;](https://www.hackerrank.com/challenges/ide-identifying-comments?isFullScreen=true)

[import java.util.\*;](https://www.hackerrank.com/challenges/ide-identifying-comments?isFullScreen=true)

[import java.text.\*;](https://www.hackerrank.com/challenges/ide-identifying-comments?isFullScreen=true)

[import java.math.\*;](https://www.hackerrank.com/challenges/ide-identifying-comments?isFullScreen=true)

[import java.util.regex.\*;](https://www.hackerrank.com/challenges/ide-identifying-comments?isFullScreen=true)

[public class Solution {](https://www.hackerrank.com/challenges/ide-identifying-comments?isFullScreen=true)

[public static void main(String[] args) {](https://www.hackerrank.com/challenges/ide-identifying-comments?isFullScreen=true)

[Scanner input = new Scanner(System.in);](https://www.hackerrank.com/challenges/ide-identifying-comments?isFullScreen=true)

[StringBuilder sb = new StringBuilder();](https://www.hackerrank.com/challenges/ide-identifying-comments?isFullScreen=true)

[String text = "";](https://www.hackerrank.com/challenges/ide-identifying-comments?isFullScreen=true)

[String regex = "(\\/)(\\\*)(.|\\s)\*?\\2\\1|(\\/\\/.\*)";](https://www.hackerrank.com/challenges/ide-identifying-comments?isFullScreen=true)

[while (input.hasNextLine()) {](https://www.hackerrank.com/challenges/ide-identifying-comments?isFullScreen=true)

[sb.append(input.nextLine().trim());](https://www.hackerrank.com/challenges/ide-identifying-comments?isFullScreen=true)

[sb.append("\n");](https://www.hackerrank.com/challenges/ide-identifying-comments?isFullScreen=true)

[}](https://www.hackerrank.com/challenges/ide-identifying-comments?isFullScreen=true)

[text = sb.toString();](https://www.hackerrank.com/challenges/ide-identifying-comments?isFullScreen=true)

[Pattern pattern = Pattern.compile(regex);](https://www.hackerrank.com/challenges/ide-identifying-comments?isFullScreen=true)

[Matcher matcher = pattern.matcher(text);](https://www.hackerrank.com/challenges/ide-identifying-comments?isFullScreen=true)

[while (matcher.find()) {](https://www.hackerrank.com/challenges/ide-identifying-comments?isFullScreen=true)

[System.out.println(matcher.group());](https://www.hackerrank.com/challenges/ide-identifying-comments?isFullScreen=true)

[}](https://www.hackerrank.com/challenges/ide-identifying-comments?isFullScreen=true)

[}](https://www.hackerrank.com/challenges/ide-identifying-comments?isFullScreen=true)

[}](https://www.hackerrank.com/challenges/ide-identifying-comments?isFullScreen=true)

#### [Detecting Valid Latitude and Longitude Pairs](https://www.hackerrank.com/challenges/detecting-valid-latitude-and-longitude?isFullScreen=true)

[# Enter your code here. Read input from STDIN. Print output to STDOUT](https://www.hackerrank.com/challenges/detecting-valid-latitude-and-longitude?isFullScreen=true)

[import re](https://www.hackerrank.com/challenges/detecting-valid-latitude-and-longitude?isFullScreen=true)

[def validate(data):](https://www.hackerrank.com/challenges/detecting-valid-latitude-and-longitude?isFullScreen=true)

[# (latitude, longitude)](https://www.hackerrank.com/challenges/detecting-valid-latitude-and-longitude?isFullScreen=true)

[pattern = r'\(' + r'[\+-]?(90(\.0+)?|[1-8]\d(\.[0-9]+)?|\d(\.[0-9]+)?), [\+-]?(180(\.0+)?|1[0-7]\d(\.[0-9]+)?|[1-9]\d(\.[0-9]+)?|\d(\.[0-9]+)?)' + r'\)'](https://www.hackerrank.com/challenges/detecting-valid-latitude-and-longitude?isFullScreen=true)

[return re.search(pattern, data)](https://www.hackerrank.com/challenges/detecting-valid-latitude-and-longitude?isFullScreen=true)

[for i in range(int(input().strip())):](https://www.hackerrank.com/challenges/detecting-valid-latitude-and-longitude?isFullScreen=true)

[if validate(input().strip()):](https://www.hackerrank.com/challenges/detecting-valid-latitude-and-longitude?isFullScreen=true)

[print("Valid")](https://www.hackerrank.com/challenges/detecting-valid-latitude-and-longitude?isFullScreen=true)

[else:](https://www.hackerrank.com/challenges/detecting-valid-latitude-and-longitude?isFullScreen=true)

[print("Invalid")](https://www.hackerrank.com/challenges/detecting-valid-latitude-and-longitude?isFullScreen=true)

#### [HackerRank Tweets](https://www.hackerrank.com/challenges/hackerrank-tweets?isFullScreen=true)

[# Enter your code here. Read input from STDIN. Print output to STDOUT](https://www.hackerrank.com/challenges/hackerrank-tweets?isFullScreen=true)

[import re](https://www.hackerrank.com/challenges/hackerrank-tweets?isFullScreen=true)

[p = re.compile('((h|H)(a|A)(c|C)(k|K)(e|E)(r|R)(r|R)(a|A)(n|N)(k|K))')](https://www.hackerrank.com/challenges/hackerrank-tweets?isFullScreen=true)

[t = int(input())](https://www.hackerrank.com/challenges/hackerrank-tweets?isFullScreen=true)

[c = 0](https://www.hackerrank.com/challenges/hackerrank-tweets?isFullScreen=true)

[for i in range(t):](https://www.hackerrank.com/challenges/hackerrank-tweets?isFullScreen=true)

[x = str(input())](https://www.hackerrank.com/challenges/hackerrank-tweets?isFullScreen=true)

[c += len(re.findall(p, x))](https://www.hackerrank.com/challenges/hackerrank-tweets?isFullScreen=true)

[print(c)](https://www.hackerrank.com/challenges/hackerrank-tweets?isFullScreen=true)

#### [Utopian Identification Number](https://www.hackerrank.com/challenges/utopian-identification-number?isFullScreen=true)

[# Enter your code here. Read input from STDIN. Print output to STDOUT](https://www.hackerrank.com/challenges/utopian-identification-number?isFullScreen=true)

[import re](https://www.hackerrank.com/challenges/utopian-identification-number?isFullScreen=true)

[p = re.compile('^[a-z]{0,3}[0-9]{2,8}[A-Z]{3,}')](https://www.hackerrank.com/challenges/utopian-identification-number?isFullScreen=true)

[n = int(input())](https://www.hackerrank.com/challenges/utopian-identification-number?isFullScreen=true)

[for i in range(n):](https://www.hackerrank.com/challenges/utopian-identification-number?isFullScreen=true)

[x = str(input())](https://www.hackerrank.com/challenges/utopian-identification-number?isFullScreen=true)

[if(len(re.findall(p, x)) > 0):](https://www.hackerrank.com/challenges/utopian-identification-number?isFullScreen=true)

[print("VALID")](https://www.hackerrank.com/challenges/utopian-identification-number?isFullScreen=true)

[else:](https://www.hackerrank.com/challenges/utopian-identification-number?isFullScreen=true)

[print("INVALID")](https://www.hackerrank.com/challenges/utopian-identification-number?isFullScreen=true)

#### [Valid PAN format](https://www.hackerrank.com/challenges/valid-pan-format?isFullScreen=true)

[# Enter your code here. Read input from STDIN. Print output to STDOUT](https://www.hackerrank.com/challenges/valid-pan-format?isFullScreen=true)

[import re](https://www.hackerrank.com/challenges/valid-pan-format?isFullScreen=true)

[p = re.compile('[A-Z]{5}[0-9]{4}[A-Z]')](https://www.hackerrank.com/challenges/valid-pan-format?isFullScreen=true)

[n = int(input())](https://www.hackerrank.com/challenges/valid-pan-format?isFullScreen=true)

[for i in range(n):](https://www.hackerrank.com/challenges/valid-pan-format?isFullScreen=true)

[x = str(input())](https://www.hackerrank.com/challenges/valid-pan-format?isFullScreen=true)

[if(len(x) != 10):](https://www.hackerrank.com/challenges/valid-pan-format?isFullScreen=true)

[print("NO")](https://www.hackerrank.com/challenges/valid-pan-format?isFullScreen=true)

[elif(len(re.findall(p, x)) > 0):](https://www.hackerrank.com/challenges/valid-pan-format?isFullScreen=true)

[print("YES")](https://www.hackerrank.com/challenges/valid-pan-format?isFullScreen=true)

[else:](https://www.hackerrank.com/challenges/valid-pan-format?isFullScreen=true)

[print("NO")](https://www.hackerrank.com/challenges/valid-pan-format?isFullScreen=true)

#### [Find HackerRank](https://www.hackerrank.com/challenges/find-hackerrank?isFullScreen=true)

[<?php](https://www.hackerrank.com/challenges/find-hackerrank?isFullScreen=true)

[$\_fp = fopen("php://stdin", "r");](https://www.hackerrank.com/challenges/find-hackerrank?isFullScreen=true)

[/\* Enter your code here. Read input from STDIN. Print output to STDOUT \*/](https://www.hackerrank.com/challenges/find-hackerrank?isFullScreen=true)

[$result = [];](https://www.hackerrank.com/challenges/find-hackerrank?isFullScreen=true)

[if ($\_fp) {](https://www.hackerrank.com/challenges/find-hackerrank?isFullScreen=true)

[$i = 0;](https://www.hackerrank.com/challenges/find-hackerrank?isFullScreen=true)

[while (($line = fgets($\_fp)) !== false) {](https://www.hackerrank.com/challenges/find-hackerrank?isFullScreen=true)

[if($i > 0){](https://www.hackerrank.com/challenges/find-hackerrank?isFullScreen=true)

[if(preg\_match("/^hackerrank$/", $line)) $result[] = 0;](https://www.hackerrank.com/challenges/find-hackerrank?isFullScreen=true)

[else if(preg\_match("/\shackerrank$/", $line)) $result[] = 2;](https://www.hackerrank.com/challenges/find-hackerrank?isFullScreen=true)

[else if(preg\_match("/^hackerrank/", $line)) $result[] = 1;](https://www.hackerrank.com/challenges/find-hackerrank?isFullScreen=true)

[else $result[] = -1;](https://www.hackerrank.com/challenges/find-hackerrank?isFullScreen=true)

[}](https://www.hackerrank.com/challenges/find-hackerrank?isFullScreen=true)

[$i++;](https://www.hackerrank.com/challenges/find-hackerrank?isFullScreen=true)

[}](https://www.hackerrank.com/challenges/find-hackerrank?isFullScreen=true)

[fclose($\_fp);](https://www.hackerrank.com/challenges/find-hackerrank?isFullScreen=true)

[foreach($result as $v) print\_r($v . "\n");](https://www.hackerrank.com/challenges/find-hackerrank?isFullScreen=true)

[}](https://www.hackerrank.com/challenges/find-hackerrank?isFullScreen=true)

[?>](https://www.hackerrank.com/challenges/find-hackerrank?isFullScreen=true)

#### [Saying Hi](https://www.hackerrank.com/challenges/saying-hi?isFullScreen=true)

[# Enter your code here. Read input from STDIN. Print output to STDOUT](https://www.hackerrank.com/challenges/saying-hi?isFullScreen=true)

[n = int(input())](https://www.hackerrank.com/challenges/saying-hi?isFullScreen=true)

[import re](https://www.hackerrank.com/challenges/saying-hi?isFullScreen=true)

[p = re.compile('^[Hh][Ii]\s[^dD].\*')](https://www.hackerrank.com/challenges/saying-hi?isFullScreen=true)

[for i in range(n):](https://www.hackerrank.com/challenges/saying-hi?isFullScreen=true)

[x = str(input())](https://www.hackerrank.com/challenges/saying-hi?isFullScreen=true)

[if(len(re.findall(p, x)) > 0):](https://www.hackerrank.com/challenges/saying-hi?isFullScreen=true)

[print(x)](https://www.hackerrank.com/challenges/saying-hi?isFullScreen=true)

#### [HackerRank Language](https://www.hackerrank.com/challenges/hackerrank-language?isFullScreen=true)

[# Enter your code here. Read input from STDIN. Print output to STDOUT](https://www.hackerrank.com/challenges/hackerrank-language?isFullScreen=true)

[import re](https://www.hackerrank.com/challenges/hackerrank-language?isFullScreen=true)

[p = re.compile('^\d+\s+(C|CPP|JAVA|PYTHON|PERL|PHP|RUBY|CSHARP|HASKELL|CLOJURE|BASH|SCALA|ERLANG|CLISP|LUA|BRAINFUCK|JAVASCRIPT|GO|D|OCAML|R|PASCAL|SBCL|DART|GROOVY|OBJECTIVEC)$')](https://www.hackerrank.com/challenges/hackerrank-language?isFullScreen=true)

[n = int(input())](https://www.hackerrank.com/challenges/hackerrank-language?isFullScreen=true)

[for i in range(n):](https://www.hackerrank.com/challenges/hackerrank-language?isFullScreen=true)

[x = str(input())](https://www.hackerrank.com/challenges/hackerrank-language?isFullScreen=true)

[if(len(re.findall(p, x)) > 0):](https://www.hackerrank.com/challenges/hackerrank-language?isFullScreen=true)

[print("VALID")](https://www.hackerrank.com/challenges/hackerrank-language?isFullScreen=true)

[else:](https://www.hackerrank.com/challenges/hackerrank-language?isFullScreen=true)

[print("INVALID")](https://www.hackerrank.com/challenges/hackerrank-language?isFullScreen=true)

#### [Split the Phone Numbers](https://www.hackerrank.com/challenges/split-number?isFullScreen=true)

[# Enter your code here. Read input from STDIN. Print output to STDOUT](https://www.hackerrank.com/challenges/split-number?isFullScreen=true)

[import re](https://www.hackerrank.com/challenges/split-number?isFullScreen=true)

[p = re.compile('(\d{1,3})[-|\s](\d{1,3})[-|\s](\d{4,10})')](https://www.hackerrank.com/challenges/split-number?isFullScreen=true)

[n = int(input())](https://www.hackerrank.com/challenges/split-number?isFullScreen=true)

[for i in range(n):](https://www.hackerrank.com/challenges/split-number?isFullScreen=true)

[x = str(input())](https://www.hackerrank.com/challenges/split-number?isFullScreen=true)

[if(len(re.findall(p, x)) > 0):](https://www.hackerrank.com/challenges/split-number?isFullScreen=true)

[y = re.findall(p, x)[0]](https://www.hackerrank.com/challenges/split-number?isFullScreen=true)

[print("CountryCode="+y[0]+",LocalAreaCode="+y[1]+",Number="+y[2])](https://www.hackerrank.com/challenges/split-number?isFullScreen=true)

#### [Detect HTML Attributes](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[import java.util.ArrayList;](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[import java.util.List;](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[import java.util.Map;](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[import java.util.Scanner;](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[import java.util.Set;](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[import java.util.TreeMap;](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[import java.util.TreeSet;](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[import java.util.regex.Matcher;](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[import java.util.regex.Pattern;](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[public class DetectHtmlAttributes](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[{](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[private static final String REGEX = "<[a-z0-9]+(\\s+[a-z]+=[\\\"\\'][a-zA-Z\\[\\]\\-\\/\\\\:\\.\\s\_\\?!\\d;\\(\\),#@\\{\\}=%\\&\\|\\+\\\*]\*[\\\"\\'])\*(\\s+/)?>";](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[public static void main(String[] args)](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[{](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[Scanner scanner = new Scanner(System.in);](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[Pattern regex = Pattern.compile(REGEX);](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[int tests = Integer.parseInt(scanner.nextLine());](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[List<String> tagsWithAttributes = new ArrayList<>();](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[for(int i = 0; i < tests; i++)](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[{](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[String line = scanner.nextLine();](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[Matcher matcher = regex.matcher(line);](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[while(matcher.find())](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[{](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[tagsWithAttributes.add(matcher.group());](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[}](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[}](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[Map<String, Set<String>> map = new TreeMap<>();](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[for(String tagAtt : tagsWithAttributes)](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[{](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[Pattern tagPattern = Pattern.compile("<[a-z0-9]+");](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[Matcher tagMatcher = tagPattern.matcher(tagAtt);](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[String tag = null;](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[Set<String> attributes = new TreeSet<>();](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[if(tagMatcher.find())](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[{](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[tag = tagMatcher.group().replace("<", "");](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[}](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[Pattern attPattern = Pattern](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[.compile("[a-z]+=[\\\"\\'][a-zA-Z\\[\\]\\-\\/\\\\:\\.\\s\_\\?!\\d;\\(\\),#@\\{\\}=%\\&\\|\\+\\\*]\*[\\\"\\']");](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[Matcher attMatcher = attPattern.matcher(tagAtt);](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[while(attMatcher.find())](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[{](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[attributes](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[.add(attMatcher](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[.group()](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[.trim()](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[.replaceAll(](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

["=[\\\"\\'][a-zA-Z\\[\\]\\-\\/\\\\:\\.\\s\_\\?!\\d;\\(\\),#@\\{\\}=%\\&\\|\\+\\\*]\*[\\\"\\']",](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[""));](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[}](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[Set<String> mapSet = map.get(tag);](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[if(mapSet != null && !mapSet.isEmpty())](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[{](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[mapSet.addAll(attributes);](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[map.put(tag, mapSet);](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[}](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[else](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[{](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[map.put(tag, attributes);](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[}](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[}](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[StringBuilder sb = new StringBuilder();](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[for(String tag : map.keySet())](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[{](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[sb.append(tag);](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[sb.append(":");](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[for(String attribute : map.get(tag))](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[{](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[sb.append(attribute);](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[sb.append(",");](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[}](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[if(!map.get(tag).isEmpty())](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[{](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[sb.deleteCharAt(sb.length() - 1);](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[}](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[System.out.println(sb);](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[sb.delete(0, sb.length());](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[}](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[scanner.close();](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[}](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

[}](https://www.hackerrank.com/challenges/html-attributes?isFullScreen=true)

#### [The British and American Style of Spelling](https://www.hackerrank.com/challenges/uk-and-us?isFullScreen=true)

[# Enter your code here. Read input from STDIN. Print output to STDOUT](https://www.hackerrank.com/challenges/uk-and-us?isFullScreen=true)

[import re](https://www.hackerrank.com/challenges/uk-and-us?isFullScreen=true)

[data = " ".join([input().strip() for i in range(int(input().strip()))])](https://www.hackerrank.com/challenges/uk-and-us?isFullScreen=true)

[for i in range(int(input().strip())):](https://www.hackerrank.com/challenges/uk-and-us?isFullScreen=true)

[print(len(re.findall(input()[:-2]+"(ze|se)", data)))](https://www.hackerrank.com/challenges/uk-and-us?isFullScreen=true)

#### [UK and US: Part 2](https://www.hackerrank.com/challenges/uk-and-us-2?isFullScreen=true)

[import re](https://www.hackerrank.com/challenges/uk-and-us-2?isFullScreen=true)

[sent = []](https://www.hackerrank.com/challenges/uk-and-us-2?isFullScreen=true)

[n = int(input())](https://www.hackerrank.com/challenges/uk-and-us-2?isFullScreen=true)

[for i in range(n):](https://www.hackerrank.com/challenges/uk-and-us-2?isFullScreen=true)

[x = str(input())](https://www.hackerrank.com/challenges/uk-and-us-2?isFullScreen=true)

[sent.append(x)](https://www.hackerrank.com/challenges/uk-and-us-2?isFullScreen=true)

[t = int(input())](https://www.hackerrank.com/challenges/uk-and-us-2?isFullScreen=true)

[for i in range(t):](https://www.hackerrank.com/challenges/uk-and-us-2?isFullScreen=true)

[x = str(input())](https://www.hackerrank.com/challenges/uk-and-us-2?isFullScreen=true)

[y = x](https://www.hackerrank.com/challenges/uk-and-us-2?isFullScreen=true)

[c = 0](https://www.hackerrank.com/challenges/uk-and-us-2?isFullScreen=true)

[x = x.replace('our','or')](https://www.hackerrank.com/challenges/uk-and-us-2?isFullScreen=true)

[p = re.compile('(?:\s|\A)'+'('+x+'|'+y+')'+'(?=\s|\Z)')](https://www.hackerrank.com/challenges/uk-and-us-2?isFullScreen=true)

[for sen in sent:](https://www.hackerrank.com/challenges/uk-and-us-2?isFullScreen=true)

[c += len(re.findall(p, sen))](https://www.hackerrank.com/challenges/uk-and-us-2?isFullScreen=true)

[print(c)](https://www.hackerrank.com/challenges/uk-and-us-2?isFullScreen=true)