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                                                                                                                 Exercises
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                                                                                                                 Answer the questions or complete the tasks outlined in bold below, use the specific method described if applicable.\\
                                                                                                                 Whatis7tothepowerof4?
                                                                                                                 Whatis7tothepowerof4?
                                                                                                               print("7tothepowerof4is:",7**4)
                                           In[17]:
                                                                                                                   7tothepowerof4is:2401
Splitthisstring:
                                                                                                                 Splitthisstring:
                                                                                                               s="HithereSam!" intoalist.
                                                                                                                   intoalist.
                                                    In[2]:
                                                                                                                   s="HithereSam!"l=s.split(
                                                                                                                   )print(l)
                                                                                                                 Giventhey sciables:
                                                                                                                 Giventhevariables:
                                                                                                                                           planet="Earth"diamete
                                                                                                                 Use.forpatotoprintthefollowingstring:
                                                                                                                 Use. format () toprint the following string: The diameter of Earth is 12742 kilometers.\\
                                                                                                                                                                                                                                 {planet} {diameter}
                                                                                                                   print (\cite{Comparison} The diameter of {planet} is {diameter} kilometers.". format (planet = \cite{Comparison} Earth", diameter = 12742) to the diameter of {planet} is {diameter} i
                                                    In[3]:
                                                                                                                 ChveliamstessEarshiss2742kilngregrebtheword"hello"
                                                                                                                 Giventhisnestedlist, use indexing to grab the word "hello"
                                                    In[4]:
                                                                                                                 Ist=[1,2,[3,4],[5,[100,200,['hello']],23,11],1,7]
                                                                                                                   str=lst[3][1][2][0]print(str)
                                                                                                                 \label{lem:control} Given this nest dictionary grab the word "hello". Be prepared, this will be annoying / tricky field of the control of t
                                                                                                                 Giventhisnestdictionarygrabtheword"hello".Beprepared,thiswillbeannoying/tricky
                                                    In[5]:
                                                                                                                 d = \{'k1': [1,2,3, \{'tricky': ['oh', 'man', 'inception', \{'target': [1,2,3, 'hello']\}]\}\} print (d['k1'][3]['tricky'][3]['target'][3])
                                                                                                                   Whatisthemaindifferencebetweenatupleandalist?
                                                                                                                 hello
                                                                                                                 Whatisthemaindifferencebetweenatupleandalist?
                                                                                                                 Create a function that grabs the email websited omain from a string in the form: \\
                                                    In[]:
                                                                                                               tupleisimmutablebutlistismutable.
                                                                                                                 Create a function that grabs the email websited omain from a string in the form: user the context of the cont
                                                                                                                 Soforexample,passing"user@domain.com"wouldreturn:domain.com
                                                                                                                                           @domain.com
                                                                                                                 Sofor \cite{e}{e} xample, passing "user@domain.com" would return: domain.com
                                                                                                                                                                            continueif
                                                    In[6]:
                                                                                                                 s=input()I=0
                                                                                                                   foriins:
                                                                                                                                              ifi=="@":l=1
                                                                                                                                                                           continueifl=
                                                                                                                                                                           print(i,end="")
                                                                                                               {\tt Createabasic function that returns True if the word 'dog' is contained in the inputs tring. Don't worry about edge cases like a punctuation of the property of the proper
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if returnTru

CreateabasRcfunctionthatreturnsTrueiftheword'dog'iscontainedintheinputstring.Don'tworryaboutedgecaseslikeapunctuationbeingattachedtothe wordd\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^{1}\)\(^
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 $being attached to the word dog, but do account for capitalization. \\user@domain.comdomain.$

Dogispetanimal.

Out[7]:True

Create a function that counts the number of times at bound tidely of constate satisful glassia seasons.

In[8]: defconf(input1): FetUFninput1.count('dog')s=input().lower() conf(s) $Dog is petanimal. Il oved og {\color{red}Out[8]:}2$ Problem You are drivingantitateออกเรียลกับสารอิกเบอร์เกลอย์เกลอศร์เจารรุชอาวางเกลอ Muiterafringian to neturn one of 3 possible results: The are arministed as the standard of the stan In[9]: defcaught_speeding(speed,is_birthday): ifis_birthday:speeding=speed-5 speeding=speed speeding>=81: return'BigTicket'elifspeeding>=61andspeeding<=80: elif return'Small'Eigket' else: return else return'NoTicket'a=int(in put())b=i return nput()if(b =='1'): if print(caught_speeding(a, True)) else: print(caughtspeeding(a,False)) 51 NoTicket In[10]: defcaught_speeding(speed,is_birthday): ifis_birthday:speeding=speed-5 speeding=speed speeding>=81: return'BigTicket'elifspeeding>=61andspeeding<=80: elif return'Small Tigket' else: return else return'NoTicket'a=int(in put())b=i return nput()if(b =='1'): if print(caught_speeding(a, True)) else: print(caughtspeeding(a,False)) 65 SmallTicket In[11]: defcaught_speeding(speed,is_birthday): $if is_birthday:speeding=speed-5$ speeding=speed speeding>=81: return'BigTicket'elifspeeding>=61andspeeding<=80: elif return'SmallTigket' else: return else return'NoTicket'a=int(in put())b=i return nput()if(b =='1'): if print(caught_speeding(a,True)) else: print(caughtspeeding(aFalse)) 90 BigTicket Create an employee list with basics alary values (at least 5 values for 5 employees) and using a for loop retreive each employee salary values (at least 5 values for 5 employees) and using a for loop retreive each employee salary values (at least 5 values for 5 employees) and using a for loop retreive each employee salary values (at least 5 values for 5 employees) and using a for loop retreive each employee salary values (at least 5 values for 5 employees) and using a for loop retreive each employee salary values (at least 5 values for 5 employees) and using a for loop retreive each employee salary values (at least 5 values for 5 employees) and using a for loop retreive each employee salary values (at least 5 values for 5 employees) and using a for loop retreive each employee salary values (at least 5 employees) and using a for loop retreive each employee salary values (at least 5 employees) and using a for loop retreive each employee salary values (at least 5 employees) and using a for loop retreive each employee salary values (at least 5 employees) and using a for loop retreive experiment employees (at least 5 employees) and using a for loop retreive experiment employees (at least 5 employees) and using a for loop retreive experiment employees (at least 5 employees) and using a for loop retreive experiment employees (at least 5 employees) and using a for loop retreive employees (at least 5 employees) and using a for loop retreive employees (at least 5 employees) and using a for loop retreive employees (at least 5 employees) and the loop retreive employees (at least 5 employees) and the loop retreive employees (at least 5 employees) and the loop retreive employees (at least 5 employees) and the loop retreive employees (at least 5 employees) and the loop retreive employees (at least 5 employees) and the loop retreive employees (at least 5 employees) and the loop retreive employees (at least 5 employees) and the loop retreive employees (at least 5 employees) and the loop retreive employees (at least 5 employee

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