Online Test 2, Question 6

Due on 2021-03-09, 22:00 IST

Question 6

Write a Python function `disjointlist(l1,l2)` that takes two lists as arguments and returns `True` if the two lists are disjoint, otherwise returns `False`.

Two lists are said to be disjoint if there is no element that common to both the lists. For instance, `[2,2,3,4,5]` and `[6,8,8,1]` are disjoint, while `[1,2,3,4]` and `[2,2]` are not.

Sample Test Cases

	Input	Output
Test Case 1	`disjointlist([2,2,3,4,5],[6,8,8,1])`	`True`
Test Case 2	`disjointlist([1,2,3,4],[2,2])`	`False`
Test Case 3	`disjointlist([1,2,3,4],[])`	`True`
Test Case 4	`disjointlist([1,4,1,1],[2,2,3,3])`	`True`
Test Case 5	`disjointlist([2,2,3,4,5],[6,8,8,1])`	`True`
Test Case 6	`disjointlist([1,2,3,4],[2,2])`	`False`

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.
Sample solutions (Provided by instructor)

```
def disjointlist(l1,l2):
  s1 = set(l1)
  s2 = set(l2)
  return(s1 & s2 == set())
import ast

def topairoflists(inp):
  inp = "["+inp+"]"
  inp = ast.literal_eval(inp)
  return (inp[0],inp[1])

fncall = input()
lparen = fncall.find("(")
rparen = fncall.rfind(")")
fname = fncall[:lparen]
farg = fncall[lparen+1:rparen]

if fname == "disjointlist":
  (arg1,arg2) = topairoflists(farg)
  print(disjointlist(arg1,arg2))

```

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- **Week 7 Quiz ()**
- **Week 8: Dynamic programming, wrap-up ()**
- **Week 8 Programming Assignment ()**
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- **Online Programming Test 1, 01 Dec 2020, 10:00-12:00 ()**
- **Online Programming Test 2, 01 Dec 2020, 20:00-22:00 ()**
- **Online Programming Test 1, 09 Mar 2021, 10:00-12:00 ()**

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