

CSES Problem Set

Planets Cycles

TASK | SUBMIT | RESULTS | STATISTICS | TESTS | QUEUE

Submission details

Task:	Planets Cycles			
Sender:	razs			
Submission time:	2024-12-11 15:54:12 +0200			
Language:	Python3 (PyPy3)			
Status:	READY			
Result:	ACCEPTED			

Test results A

test	verdict	time	
#1	ACCEPTED	0.04 s	<u>*</u>
#2	ACCEPTED	0.04 s	<u>*</u>
#3	ACCEPTED	0.04 s	8
#4	ACCEPTED	0.04 s	*
#5	ACCEPTED	0.04 s	*
#6	ACCEPTED	0.12 s	<u>*</u>
#7	ACCEPTED	0.10 s	<u>*</u>
#8	ACCEPTED	0.12 s	8
#9	ACCEPTED	0.16 s	<u>»</u>
#10	ACCEPTED	0.15 s	<u>*</u>
#11	ACCEPTED	0.04 s	<u>*</u>
#12	ACCEPTED	0.12 s	<u>»</u>
#13	ACCEPTED	0.04 s	<u>*</u>
#14	ACCEPTED	0.13 s	>>

Code -

```
def teleportaciok_szamolasa(n, teleporterek):
           eredmeny = [0] * n # Az eredmenyeket tároló lista
latogatott = [False] * n # A látogatott bolygókat jelöli
            for i in range(n):
                  if not latogatott[i]:
                        # Új útvonal indítása
                        utvonal = []
jelenlegi = i
 10
                        while not latogatott[jelenlegi]:
    latogatott[jelenlegi] = True
    utvonal.append(jelenlegi)
11
12
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15
                               jelenlegi = teleporterek[jelenlegi] - 1
16
17
18
                        # Meghatározzuk, hogy találtunk-e ciklust
                        if jelenlegi in utvonal:
    ciklus_kezdete = utvonal.index(jelenlegi)
    ciklus_hossza = len(utvonal) - ciklus_kezdete
20
21
22
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24
25
26
27
                               # Az eredmény frissítése a ciklusban lévő bolygókra
for idx in range(ciklus_kezdete, len(utvonal)):
    eredmeny[utvonal[idx]] = ciklus_hossza
                               # Az eredmény frissítése a ciklushoz vezető bolygókra
                               for idx in range(ciklus_kezdete):
    eredmeny[utvonal[idx]] = ciklus_hossza + ciklus_kezdete - idx
29
30
                               # Az eredmény frissítése olyan bolygókra, amelyek egy már kiszám:
                               for idx, bolygo in enumerate(utvonal):
    eredmeny[bolygo] = eredmeny[jelenlegi] + len(utvonal) - idx
31
32
33
            return eredmeny
```

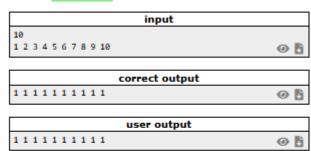
Graph Algorithms Investigation • Planets Queries I • Planets Queries II Planets Cycles • Road Reparation Road Construction • • Flight Routes Check Planets and Kingdoms -Your submissions 2024-12-11 15:54:12 2024-12-11 15:52:12

SHARE CODE TO OTHERS

Test details -

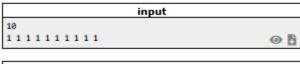
Test 1

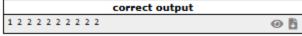
Verdict: ACCEPTED

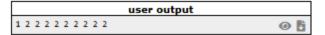


Test 2

Verdict: ACCEPTED







Test 3

Verdict: ACCEPTED

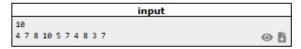
	input
10	
2 3 4 5 6 7 8 9 10 1	∅ 🖔

	correct output										
10	10	10	10	10	10	10	10	10	10	0	Ŀ

user output											
10	10	10	10	10	10	10	10	10	10	0	Bì.

Test 4

Verdict: ACCEPTED



	correct output	
4 4 2 3 1	143133	®

	user output
4 4 2 3 1 4 3 1 3 3	∅ 🖺

Test 5

Verdict: ACCEPTED

input	
10	
6872186464	⊕ 🖺

											correct output
5	3	3	6	3	6	4	5	3	5	4	∅ 🖔

	user output
5 3 6 3 6 4 5 3 5 4	Ø 🖺

Test 6

Verdict: ACCEPTED

input	
200000	
1 2 3 4 5 6 7 8 9 10 11 12 13	⊕ 🖺

correct output								
11111111111	1111	⊕ 🔓						

user output	
111111111111111	@

Test 7

Verdict: ACCEPTED

input	
200000	
1111111111111111	❷ 🖺

correct output	
1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	⊕ 🖔

												u	5(el	r	output			
1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		@	E	ì

Test 8

Verdict: ACCEPTED

input	
200000	
2 3 4 5 6 7 8 9 10 11 12 13 14	

	correct output	
200000 200000 200000	200000 20	⊕ 🖔

user output									
200000	200000	200000	200000	20	@				

