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README.md

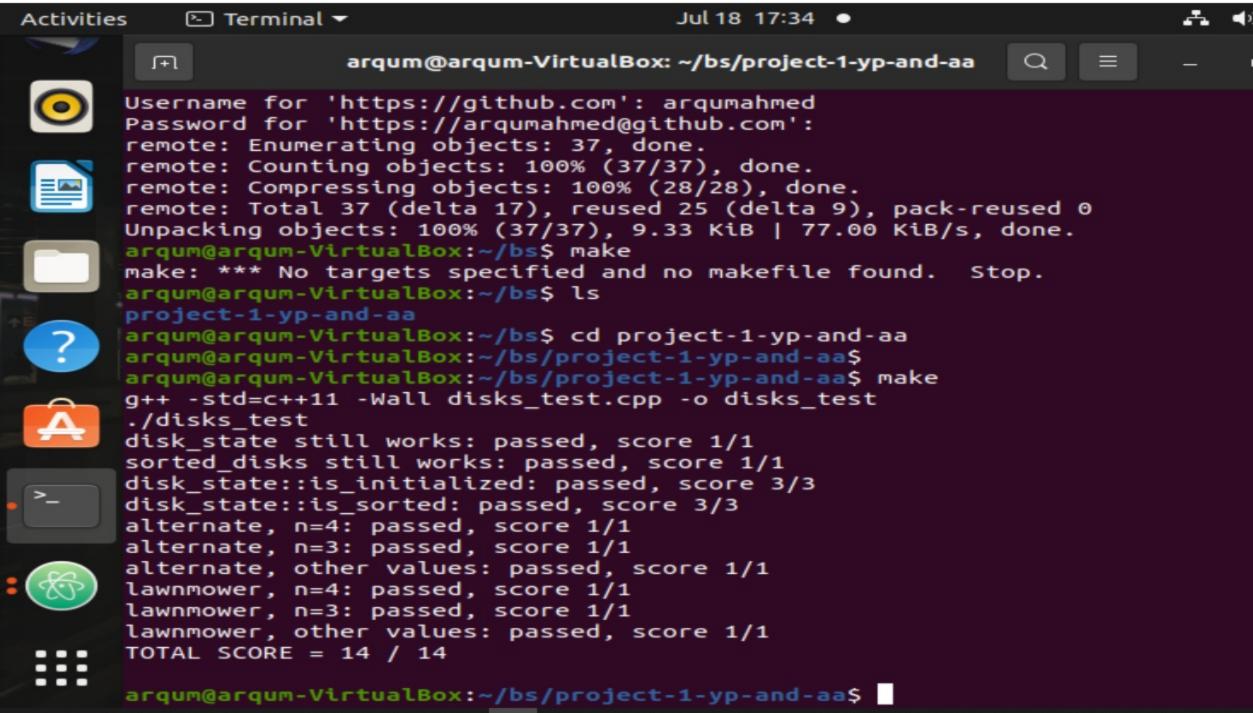
Project-1

Implementing algorithms

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```
M = 0
  for i = 1 to (+1/2do
    for J = 1 to 2n-2 do / (2n-2-1+1) = 2n-2
       if ( L []+1] = = duok 88/4 + max (6,0)=10
            L[J] !=daok)
              temp = L []
               L []] = L []+1]
                                    6
               L [J+1] = temp
              mtt
    For K = 2n-2 down to 1 do / (1-2n-2 +1) = 2n+2
      if ( L[K-1] = = light 88/4+max(6,0)=10
            L[K]!= 1ight)
              temp = L [K-1]
              L [K] = L[K]
              L[K]=temp
               M+1
 Return (L, m)
       (n+1) • ((2n-2) \cdot 10) + ((2n+2) \cdot 10))
.6 = 1 +
            20n - 20 + 20n + 20
 =1+ (0+1).
               400
```

Mathematical analysis Proof: 200 + 200+16 12 lim = 2002+200+1, lim = (2007)+(20)+(1) lim = 400+20 n-200 n2 U-200 (12) 20 lim - (400)+(20)' lim 40 = 20 >0 and n-100 (2n) 0-760 2 Defined Alternate Algorithm Input: a positive integer n and a list of 2n distrs of alternating colors dark - light, Starting with dark Output: a list of 2n disks, the first n disks are daok, the next of disks are light, and a integer m representing the Swaps to move the darkones before the light ones

M	= (['])					/1										
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for	1 =	2)	to	\cap	-1		16	0-1	- 1+) =	۸-	1					
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		for	丁	>0	to	, 2	n-2	SI	rip	2	90	16	20-2	+1)	= 1	\cap	
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S.c. 2+(n-1) .		
$= \frac{2 + 10 n^2 + n - 1}{2 + 10 n^2 - 90 + 1}$		
Mathe matical	Analysis	
Proof lon2-	Potl En2	
lim lon²-	Patl lin	(10 n²) - (9 n) + (1)
7-760		
1im 201-9	lin Cro	n)'-(9)'
n-700 2n	0-7 00	L(2n)
lim 20		and it is defined
0-> 60 2	theoefose	it exists in n2