ID III	Similarity	Correctness	Validity	Time Complexity Generated		sation of GitHub Copilot's Co Space Complexity Generated	Space Complexity Canonical	security_rating	bugs	code_smell:	Flesch Reading Ease Score
0 1 2	-1	1	1	O(n/2)	O(n/2) O(n)	O(1)	O(1)	1.0		0	86.30078261 66.70778378
2	-1	1	1	O(1)	O(n)	O(1)	O(1)	1.0	0	0	57.5075
4	-1	1	1	O(n) O(n)	O(n)	O(1)	O(1)	1.0	0	0	74.1812253 56.06863636
6	-1	0.33333333	1	O(n)	O(n) O(N)	O(n) O(n)	O(n) O(n)	1.0	0	0	77.53888889 76.17473743
3 4 5 6 7 8	-1	4	0	O(n)	O(n)	O(n) O(1)	O(n) O(1)	1.0	0	0	76.62128205 95.47425806
9 10	-1	0.6	1	O(n) O(n)	O(n) O(n*2)	O(n) O(1)	O(1) O(n)	1.0	0	0	98.271875 67.44863221
11	-1	1	1	O(n) O(n)	O(n) O(n)	O(n) O(1)	O(n) O(1)	1.0	0	0	105.9421657 92.97200758
13	-1	1	1	O(log(min(a, b) O(n/2)	O(log(n) O(n*2)	O(1) O(n)	O(1) O(n)	1.0	0	0	73.36107143 85.94034483
15	-1	1	1	O(n) O(n)	O(n)	O(n) O(n)	O(n) O(n)	1.0	0	0	95.86875 57.29355603
17	-1	4	0	O(n)	O(n)	O(n)	O(n)	1.0	0	0	102.4487719
12	-1	0.75 0.4	1	O(n)	O(n) O(n)	O(1) O(n)	O(1) O(n)	1.0	0	0	73.85168421 68.37098532
20 21	-1	0	1	O(n)	O(n/2)	O(1) O(n)	O(1) O(n)	1.0	0	0	92.74522581 91.23365385
22 23	-1	1	1	O(n) O(n)	O(n) O(n)	O(n) O(1)	O(n) O(n)	1.0	0	0	85.05141141 138.75125
24 25	-1	0.25	1	O(n) O(n)	O(n) O(sqrt(n)	O(1) O(n)	O(1) O(n)	1.0	0	0	88.55205128 80.51247253
26 27	-1	0.688666887	1	O(n) O(n)	O(n)	O(n) O(n)	O(n) O(n)	1.0	0	0	76.27522727 55.81373188
25	-1	1	1	O(n)	O(n)	O(n)	O(n)	1.0	0	0	78.45666667 81.76888889
29 30 31	-1	1	1	O(n)	O(n)	O(n) O(n)	O(n)	1.0	0	0	136.8099519
32	-1	0.916666667 -1	0	O(n)	O(n) O(log n)	O(1) O(1)	O(1)	1.0	0	0	74.3356746 115.5453348
33	-1	1	1	O(n) O(n)	O(n) O(n)	O(n) O(n)	O(n) O(n)	1.0	0	0	107.8272902 136.4675
35 36	-1	1 0	1	O(n) O(n)	O(n) O(n)	O(1) O(1)	O(1) O(n)	1.0	0	0	127.7467857
37	-1	0	1	O(n) O(n)	O(nlogn) O(n)	O(n) O(n)	O(n) O(n)	1.0	0	0	107.7549032 101.1573168
39	-1	0.77777778	1	O(n) O(n/2)	O(n) O(n/3)	O(1) O(n)	O(n) O(1)	1.0	0	1 0	96.90927273 75.07437276
41	-1	0	1	O(n)	O(n)	O(1)	O(1)	1.0	0	0	72.76675054
42 43	-1	1 0.666666667	1	O(n)	O(n) O(n*2)	O(n) O(n)	O(n) O(1)	1.0	0	0	156.4108953 82.53392478
44 45	-1	0.5	1	O(log(x) O(1)	O(log(x) O(n)	O(log(x) O(1)	O(log(x) O(1)	1.0	0	0	75.55163462 89.24166667
46 47	-1	0.6	1	O(n) O(n)	O(n) O(nlogn)	O(1) O(n)	O(n) O(n)	1.0	0	1 0	103.144789
45 49	-1	1	1	O(n) O(log n)	O(n)	O(1)	0(1)	1.0	0	0	42.81115385 149.6288235
50	-1	1	1	O(n)	O(n) O(n)	O(n) O(n)	O(t) O(n)	1.0	0	0	149.6288235 89.45958333 40.58147059
52	-1	1	1	O(n) O(n)	O(n)	O(1)	O(1)	1.0	0	0	115.4844886
53 54	-1	0.571428571	1	O(1) O(n)	O(n) O(n)	O(1) O(n)	O(n)	1.0	0	0	149.3075 80.86031674
55 56	-1	1	1	O(2'h) O(n)	O(2 ⁿ n) O(n)	O(n) O(n)	O(n)	1.0	0	0	135.4389118 56.175
57 58	-1 -1	0.5	1	O(n) O(n log n)	O(n) O(n*2)	O(1) O(n)	O(1) O(n)	1.0	0	0	84.61825 152.6891599
59 60	-1	1	1	O(n) O(n)	O(n)	O(1) O(n)	O(1)	1.0	0	0	76.63625 131.34
61	-1	1	1	O(n)	O(n)	O(n)	O(n)	1.0	0	0	56.175
62 63	-1	0.2	1	O(n)	O(n) O(n)	O(n) O(n)	O(n)	1.0	0	0	117.4645 82.925
64 65 66	-1	0.428571429	1	O(n)	O(n)	O(1) O(n)	O(1) O(n)	1.0	0	0	84.33007353 89.29833333
67	-1	0.125	0	O(n)	O(n) O(n)	O(1) O(n)	O(1) O(n)	1.0	0	0	75.59397138 91.17703041
68	-1	0.25	1	O(n) O(n)	O(n) O(n)	O(n) O(n)	O(n)	1.0	0	0	87.72147059 105.4555486
69 70 71	-1	0.33333333	1	O(n)	O(n)	O(n)	O(n)	1.0	0	0	97.42844156
72	-1	0.555555556	1	O(1) O(n)	O(1) O(n)	O(1)	O(1)	1.0	0	0	88.58985831 90.48789077
73 74	-1	0.88888889	1	O(n) O(n)	O(N) O(n)	O(1)	O(1) O(n)	1.0	0	0	80.73196762 98.55045455
75 76	-1	0.5 0.5	1	O(n) O(1)	O(n/3) O(logs)	O(1) O(1)	O(1)	1.0	0	0	79.89166159 82.45291667
77 78	-1	0.375	1	O(1) O(n)	O(1) O(n)	O(1) O(1)	O(1)	1.0	0	0	70.21013062 96.83307826
79	-1	0.625	1	O(n) O(n)	O(login) O(n)	O(n) O(1)	O(n) O(1)	1.0	0	0	64.25072791 75.66153249
81	-1	0.333333333	1	O(n)	O(n)	O(n)	O(n)	1.0	0	0	109.4425 54.0406006
82 83 84	-1	0.2	1	O(n) O(1)	O(n)	O(1)	O(1)	1.0	0	0	73.168
85	-1	0.5	1	O(n)	O(n) O(n)	O(n) O(1)	O(n) O(1)	1.0	0	0	110.0958333 98.94192308
85	-1	0.428571429 0.688666887	1	O(n)	O(n) O(n*2)	O(n) O(n)	O(n) O(n/2)	1.0	0	0	53.95431174
55 59	-1	-1	0	O(n) O(n)	O(nlogn) O(n)	O(n) O(n)	O(n) O(n)	1.0	0	0	105.3800588 67.29007837
20	-1	0.714285714	1	O(n log n) O(n)	O(nlogn) O(n)	O(n) O(1)	O(1) O(n)	1.0	0	0	99.78605489 90.37
91 92 93	-1	0.8	1	O(1) O(n)	O(1) O(n)	O(1) O(1)	O(1) O(n)	1.0	0	0	96.60511384 74.81905738
94 95	-1	0.22222222		O(n)	O(n)	O(n)	O(1)	1.0	0	0	124.4455462
36	-1	0.857142857	1	O(n)	O(n) O(n/2)	O(1) O(n)	O(1) O(n)	1.0	0	0	21.99005435 78.10506311
97 98 99	-1	0.25 0.571428571	1	O(n)	O(n)	O(1) O(1)	O(1) O(1)	1.0	0	0	74.4275 55.62722222
99 100	-1	4	0	O(1) O(n)	O(1)	O(1) O(n)	O(1) O(n)	1.0	0	0	60.47520415 85.93071429
101	-1	0.168666687	1	O(n) O(1)	O(n) O(log/n)	O(n) O(1)	O(n) O(1)	1.0	0	0	89.77094162 85.63133787
103	-1	0.168666667 0.25	1	O(1) O(n)	O(log(m-n+1) O(n)	O(1) O(n)	O(1) O(n)	1.0	0	0	98.70298443 82.25958333
105	-1	0.2	1	O(n) O(n)	O(n) O(n)	O(n) O(n)	O(n) O(n)	1.0	0	0	115.4627734 105.7395047
105	4	0.5	i	O(n) O(n)	O(n) O(n)	O(1) O(1)	O(n) O(1) O(n)	1.0	0	0	105.7395047 77.17299206 106.5632727
102	-1	0.6	1	O(N)	O(n)	O(1)	O(n)	1.0	0	0	54.45982983
110 111 112	-1	0.571428571	1	O(n) O(n)	O(n)	O(1) O(n)	O(1) O(n)	1.0	0	0	87.36054656 92.50742941
113	-1	0.111111111	1	O(n) O(n)	O(n) O(n)	O(n) O(n)	O(n)	1.0	1 0	0	85.94911791 97.54379252
114	-1	0.33333333	1	O(n) O(n/2)	O(n) O(n'm'capacity)	O(1) O(n)	O(1) O(N*M)	1.0	0	1 0	85.57419118 101.9375946
116	-1	0.857142857	1	O(n log n) O(n)	O(n log n) O(n)	O(n) O(n)	O(n) O(n)	1.0	0	0	105.3074799 80.19692308
116 117 118 119	-1	0.307692308	1	O(n) O(n)	O(n) O(N)	O(1) O(n)	O(1) O(N)	1.0	0	0	58.504
120	-1	0.363636364		O(n log n)	O(nlogn)	O(n)	O(n)	1.0	0	0	128.3986703
121	-1	1	1	O(n) O(n)	O(n) O(n)	O(1) O(1)	O(1)	1.0	0	0	105.412619 117.6675
123 124	-1	4	1	O(n) O(1)	O(n) O(1)	O(n) O(1)	O(n) O(1)	1.0	0	2	82.18070837 91.81655657
125	-1	0.375 0.846153846	1	O(n) O(n)	O(n) O(n)	O(n) O(n)	O(n) O(n)	1.0	0	0	87.6228662 113.3910511
127	-1	0.375	1	O(1) O(n)	O(n)	O(1)	O(1)	1.0	0	0	78.88963811 98.10625
129	4	0.1		O(N/2 * k)	O(n/2) O(n)	O(n) (n)	O(n/2)	1.0	0	2	102.9382108 110.0120588
131	-1	0.857142857	1	O(n) O(n)	O(n)	O(1)	O(n) O(1)	1.0	0	1	92.41176136
132 133	-1	0.714285714 0.688666687	1	O(n) O(n)	O(n)	O(n) O(n)	O(n) O(1)	1.0	0	0	71.00068238 116.435
134 135	-1	-1	0	O(n) O(nlogn)	O(n) O(n)	O(1) O(1)	O(1)	1.0	0	0	32.79423077 59.632
136	-1	4	0	O(n) O(1)	O(n)	O(n) O(1)	O(n) O(1)	1.0	0	0	54.2230914 74.18333333
138	-1	0.5	1	O(1) O(n)	O(t) O(n)	O(1) O(n)	O(1)	1.0	0	0	19.49483871 85.23981884
140	4	0.6	1	O(n)	O(n)	O(n) O(1)	O(n)	1.0	0	0	52.1054731 66.85145161
142	4	0.272727273	i	O(1) O(n)	O(n)	O(1)	O(1) O(n)	1.0	0	0	96.80089397
143 144 145	-1	0.714285714	1	O(n) O(1)	O(n) O(n)	O(n) O(1)	O(n) O(1)	1.0	0	0	73.18448864 64.32730805
146	-1	-1 0.571428571	1	O(n log n) O(n)	O(nlogn) O(n)	O(n) O(1)	O(n) O(1)	1.0	0	1	86.87896104 101.9325
147	-1	0.5	1	O(n/2) O(n)	O(n/3)	O(1) O(n)	O(1) O(n)	1.0	0	0	114.5828226 60.21389048
149	4	0.142857143	1	O(n log n)	O(n)	O(n)	O(n) O(1)	1.0	0	0	80.41368817 95.86875
151	-1	0.9	1	O(n) O(n)	O(n) O(n)	O(1) O(n) O(n)	O(1) O(n)	1.0	0	0	95.86875 86.80169872 67.7098046
152 153 154	4	0.22222222	1	O(n log n)	O(n)	O(n)	O(n)	1.0	0	1	62.22058824
155	-1	0.5 -1	0	O(n) O(n)	O(n)	O(1)	O(1)	1.0	0	0	46.4737449 66.81071429
156 157	-1	0.071428571	1	O(n) O(1)	O(n) O(1)	O(1) O(1)	O(1)	1.0	0	0	52.97909091 78.19795455
158 159	-1	0.5 0.688668887	1	O(n) O(1)	O(NlogN) O(n)	O(n) O(1)	O(N) O(1)	1.0	0	0	58.8905678 106.1205586
160	-1	0.688668887	1	O(n) O(n)	O(n)	O(1) O(n)	O(n) O(n)	1.0	0	0	80.10571298 82.3212987
162	4	0.75	1	O(n) O(n)	O(n) O(1)	O(n) O(n)	O(n) O(1)	1.0	0	0	80.10586207 78.52166279
-		-		1.00	1.09	1.7	1.00	-	-	-	