SNS COLLEGE OF ENGINEERING Coimbatore-107



COURSE NAME: ANALYSIS OF ALGORITHM

II YEAR/ IV SEMESTER

UNIT – III LEET CODE SOLUTION

Topic

Greedy Technique- Assigning Cookies (Leet Code Problem No:455)



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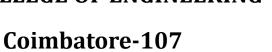




| LAB Exercise Leet Code: 455 Dote Frage |
|---|
| Leet Code: 455 |
| |
| ASSIGNICA ASSIGNICA |
| Groce dy Technique & Assigning and |
| Ground factors. |
| a child can have |
| agris, |
| Sive Factors! This refers to the Size of |
| This refers to the size of |
| Cookies |
| Explanation 3 |
| Given: Each child will be given |
| a greed factor that represent |
| minimam: 8ize. of cookies is |
| make them latisfied |
| |
| Circled factors 1 ; CSFLE 1 on larger th |
| Classification = 1 CSFLe 1 on larger # |
| PP9. |
| child Greed (= a; They need Slightly |
| factor I larger cookie (size à |
| or larger than 2) |
| to feel a h |
| |
| Cartor (=3 ! They need lang |
| Cookie (fre 3 or |
| larger) to be |
| larger) to be |



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| Classmate Date Page |
|--|
| Groat : |
| Assign cookies to children in |
| Such a way that (i) many children should be possible who uses |
| avaitable cooldies of différent sires. |
| eg: g [] Greed factor Array = [3,2,1) |
| Step 1: Sixe factor of (ooker = [2,1] |
| in Ascending order. |
| 9[] = [1,2,3] |
| Step 8: (1,2) |
| Step 8: i = 0; pointing to first child (greed fact) |
| j=0; pointing to index of first cookie (Sive factor). |
| |
| check if S(j) > = g(i); 1>=1; Prece; Satisfy the child Grive to child Mark both pointers (i) to went child |
| Move both pornoss (1) Nexo-actions |
| Step4: i=1; j=1. Check if S[I]>=9[I]; ie 2>=2 |
| True: Satisfy the child. Overtochild Move both pointers (i, 1) + west-cooling |
| TIME OUTH PURPLES (1)) I MEXICOOLE |



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