Date-09/10/2023 Doubt Class Recursion Os me koi bhi process buti haitoh by default usto stack memory Ustack Aleap

Jafa - Variable

Text

Static-local

Heap - Dynamic

Heap - Dynamic

Memory allocation islige impostent hai taak i stack overflow

Suppose ek fune likha hai Suppose et fune likha hai funlinta) func) = 324B if (a>1000) returns funl) +>24B Voctorkind>v = (1,2,3,4,5). fun() - 524 bu fun() = 24 byte 3 fun(tea); Steeck bhar jaata hai allowed segmentation fault [ryx4] Stack Stack overflow. 96B size line Complexity -s (3) O(20 gn) RE = Space Complenity = Nouf stack block taken calls.

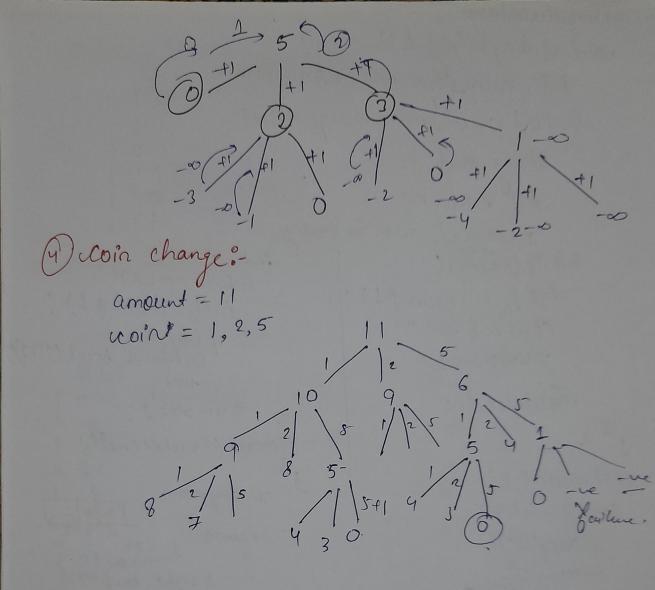
Po of calls — j'ab tak reach no of calls — j'ab tak reach par paa sha par care bar care bar care. (3) O(dogn) 000 amsung Ouad Camera

because stack space has 0(1) \*Subsequence of String-3 Pattern include / exclude fattern Ly New Approach culo Recursion m=3 27=> no of serbsequence abc 0 -> 0 0 0 1 -> 0 0 1 - - C 3 ab 2 -> 0 0 0 - B = 3 -> 0 1 1 - B C 4 ac 4->100A--6 bc AC of Cahc napping\_ 10 AB-->111 ABC ABC \* Algorithm. (1) n=s·size() 1 no of subsequence => 2n -> Nos (1) dos(i=0; \$27.\$ Nos. 3.1) convert i to Binary ->>> 3.2) Jab Jab 'I" - char to be taken

<u>@@@</u>

# includeriostream Voice Subseq 18thing & s) int num seg = pow(2,9.size()). tor (int n=0; no num seg; ++n) { 0 0 1 String out; 10 in num=n; ulconvert num to binary 0 int 1=0; while (num) { intb = (num p1), in 6 = (num \$1) Cout 46 46 "; of (b)

Deverbush\_back (S[i]) num>>=1; "coulkend" num>>=1; unt main (12 # duy run-s
rum=1 1 1=0. String=abc, subseq'(5'); I right they -> 0. seturn o; num=2 first bit=0, x 1=0; Flerative approach is better. seco. bit=1 vi=2 des > A cut Segments : - Find. Max no of cut segments. > SCI]= b. num = 5 first bit= 1 => 1=0 -> sto]= respt u=0 = i=1>sci]x next 11=1 1=2-3812]=c



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Samsung Quad Camera Shot with my Galaxy A21s