Recuision. () yord - Pond () & Cout de " Betre (3) int main () Cout xx 4 Before for 2 In ; fm11): Got a 4 After funz (); Gut ex 4 After ton 2 /n"; 1) Vold tuni() Cout as 4 for 1 1 geturo; -knehm Bet for 2 Calls bet fun! fort Aft for 1 Aft for 2

A for Gells itself directly (or inducedly. und fill void A() f - f2(1 も らいう Void fa () q fill = indirect direct void fil) & Got 21" GFG 4 22 Endl; g -fil); it keeps on int main() No termination 1,0% netvino; Segmentation fault

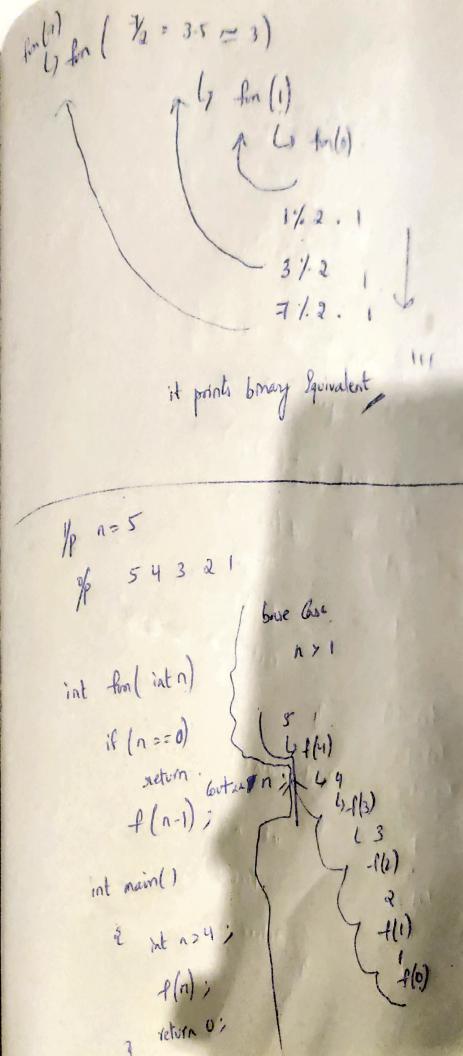
Void filled n) I her love 11 (0000) neturn ; Cost xx 40, FG " es leadle ; -1. (0-1); int main() & f,(2); GFG fi(2-1); return 0; GFG -fi(1-1); netuth; Structure fil....) Recursive Call (ie Call to fall) with attent one change in panameters base Cases

Applications of Recording Many algorithm techniques are bound on Recursion. -> Dynamic Programming -> Back tracking -> Divide & Grapes Heraton & y reassion program Solve. - Birang Starch. Many problems inherently recursive - Tower of Hazi. - OFS based traversale (DFS of gaph) Post order - Pre order traversale et

0 Void fun (int n) if (n==0) return ; Cout in a soul ; 3 f(31), for (n-1); Got de a de Pull; 4(2.1); 3 (7+(1-1); int main () fin(3); return 0; 1 void for (inta) int mainl) if (n==0). netein fun(n-1) ; Cout 22 n 22 hdl; for (1-1); 2

main () Ly don (3). Ly An (2); Ly fun(1); 1 Ls fin(0); rehia-4.fm(0); fun(i); T 4-finle); (fools) Landil + (60b) are Computed. tule! (for(0)

int don (int n) if (n==1) action 0; oreturn 1+ for (1/2) She 7 for (16). 1 fon(4) Jog2 veid for lintal. if (1==0) for (1/2); prod (1/2);



trise live We ned to all recursively upto n-1 & priat n. void pout (int n) if (n==0) Print (n-1); int main () int ney Print (n); neturn 0;

fail karsion - When parent on has noting more to do when child for has fromshed Executing Void for (int o) 2 If (n==0) 1) prints 1, carried for. neturn r bout ex n; fn(n-1); At last 1(1) Excel 4 program - konsta. but for 1 to " Recursive program. if (n==0) neturn; alls upto last so a lder prints fala-1) Cout KA ? So Atu for it need to print & return so rewisire bll So tail Rursim Empletes. Executes Slight ... Bo on -

faster