Storage organisation

1 Procedure

-declaration thant associates an identifer with a statement Actrivation tree

Root - main

Functions are Children

subdivision of Run time memory.

Compiler time -code Data

- Memory locations for Code

Run time -> stack

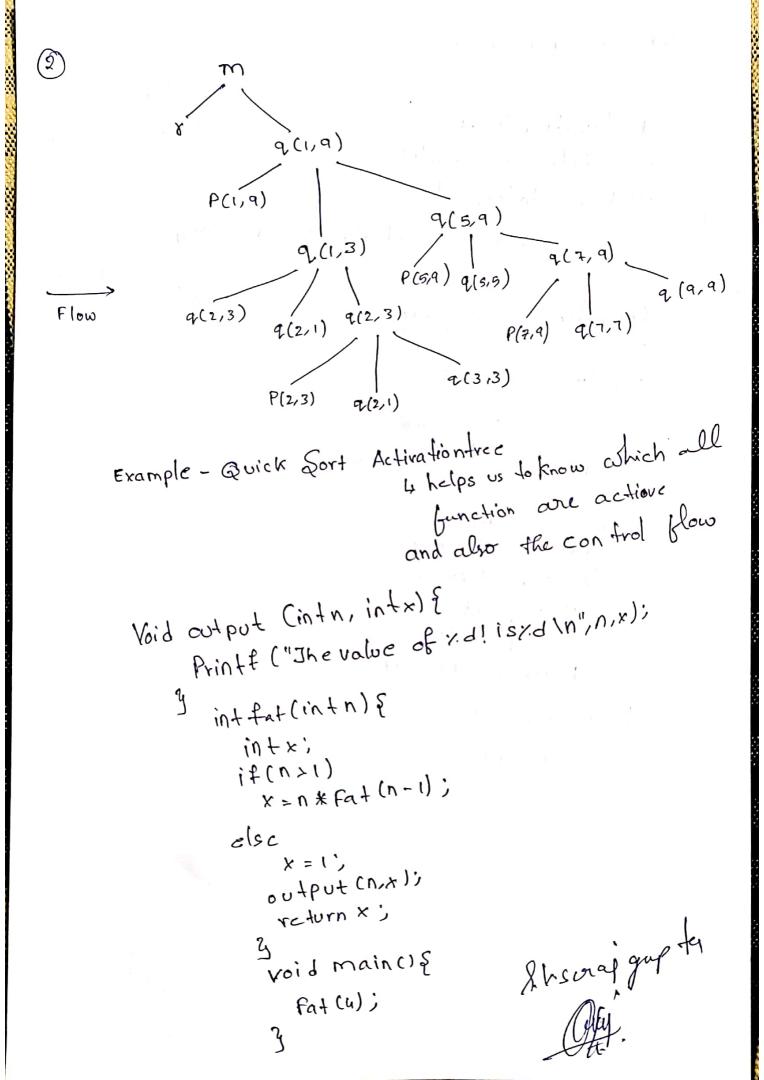
Free memory

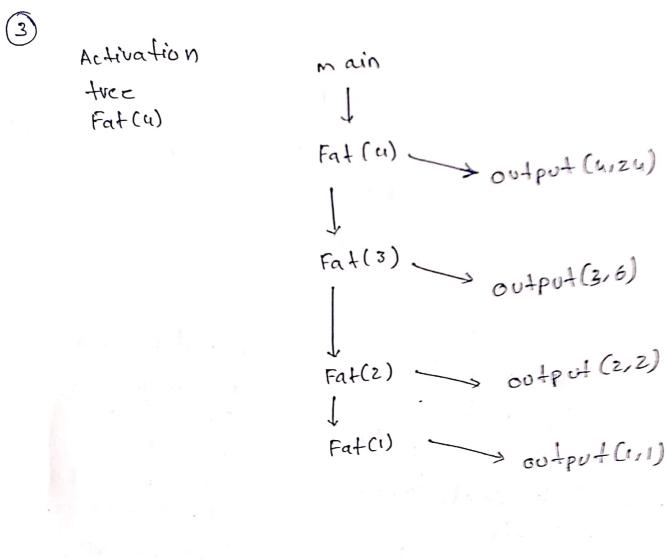
Run time Heap-ex-malloc

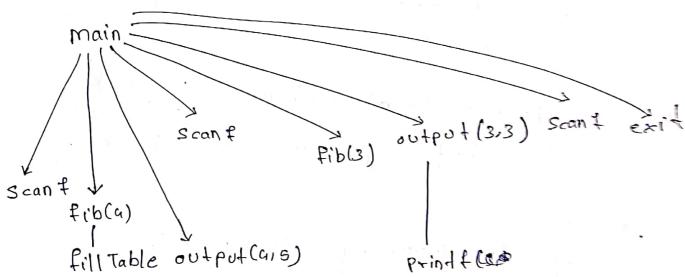
enter main()
enter read Array()
leave read Array()
enter qsort (1,9)
enter part (1,9)
leave part(1,9)

leave growt (1,9)

Strung gop for







Sv. sundi Copter

Control stack

-> keep tack of live Procedure achivedions > flow of costract in program corresponds to ordepla first traversal of Act. tree Push - activation begins Pop - when act ends.

Activation record

Control link - Pointer that points to activation record of caller access link - Points to ron local data emayer oin other act vecord.

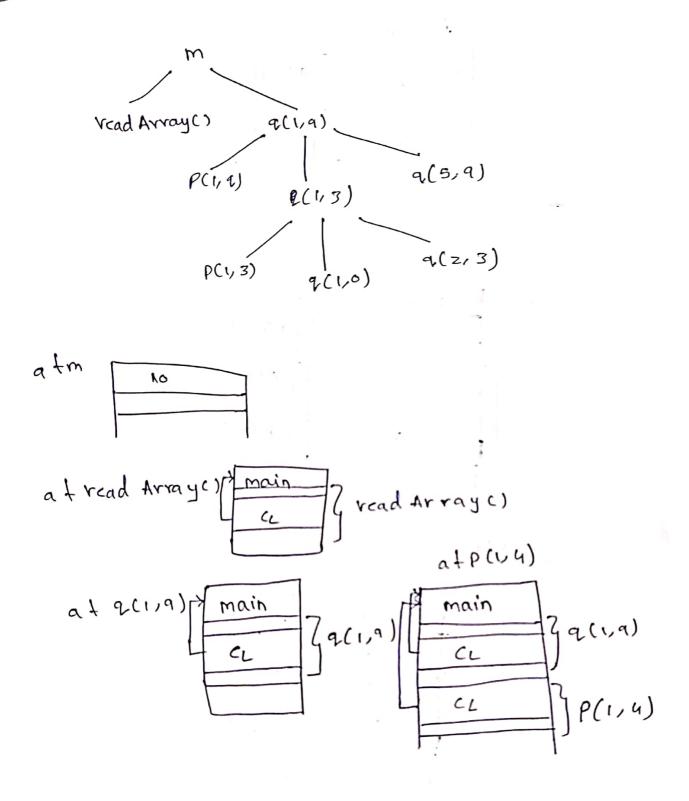
Actual Parameterm Return value control link Access Link saved Machine statues Local dada Temporavics

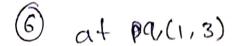
re turned SMS - holds into abouted machine value - value to be status before procedure call returned

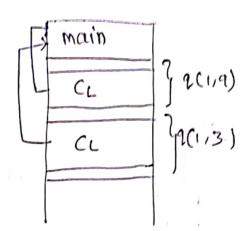
local data tempories - temporary values used in evaluation.

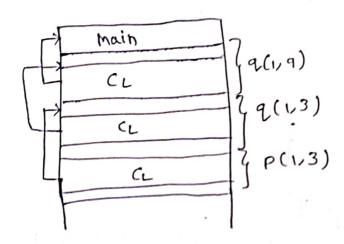
8. Ir social Goods



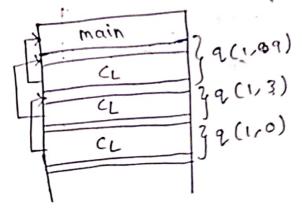




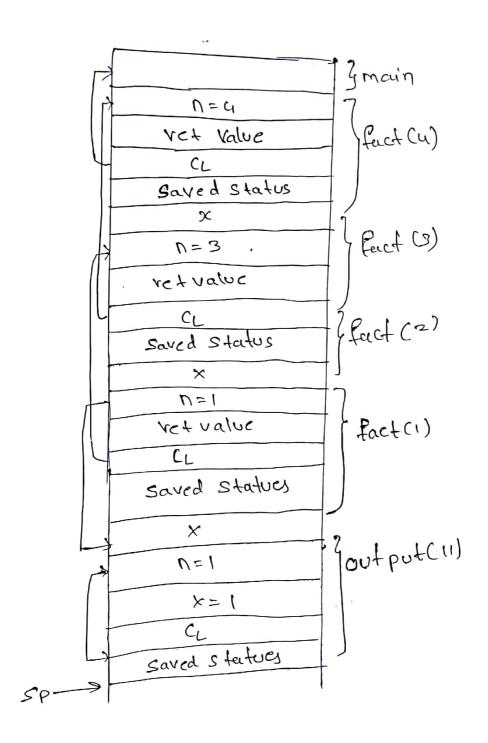




at 2(1,0)



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1. Visoral gur ter