Activation free storage organization Root-main lunctions are children frotedure dicialation that associates an identifier with a statement subdivision of sun-Ame memory 33 compile time > code > memory locations run Alme -> stack free memory Kun Am ender main () enser readarray() Leave readarray () enter grove (1,9) enter part (1,0) (eure part (1,0) leave portella leave maine) p(1,0) q(1,3) q(5,0) qp(217) Q(21) (313) VNAN MA

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```
Gample - Quick sort Activation tree
                           La helps us to know
                          all function are
                                            acifri
                          and also the control
   void output (intr, int 2) ?
        printifl" the value of % of 1 is % of 1."
            Fox (Pot n) 1
            Int no
             lf (noi)
              n= n+ Fat (n-1)
              else
                 nel
               Output (nin)
                 return x,
             vold main () h
                  Fat (4);
  Activation the taxlu)
                 main
                          y output (4,24)
                  Fat()
                 tat (2)
                 Fat (1)
       ext
                           J output (1,1)
tated owner (419) small la) (3) OUXput (27) scons
```

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workol stack 3 keep track of 17 ve procedure activa Bon -) Slow of control in program corresponds to depth hist traversal of Act tree push-activation begins pop - when act ends Adual parameters return value ACHVAHON record control 19nk Accese 17n k convol link pointer that points to activation Saved machine state record of caller local data temporaries access link- points to non local data (maybe?" returned value sms - holds Into about machine. 10 be staru befor procedure call returned local data temporarle-temporary value used in evaluation Achrotion record - Eg Quilles ort red Arrayl)

