```
11=1
                                                 1-0 , 17-0
Parta
                                                                           - dupnut run
         for (int i=n-1 ) 17=0 1 =- ) E
                                                   for ( k=0 ) 177 011 ; ket)
            fir (int to j KLIAN j KH) {
                                                         K= > K50
                  1 smething O(1)
                                                 1=1 17=0 1- rung fuce
                                         U= 5
                                       Jug h
                                                     k=0 1 K(a , k++ - runs of lins
                        your way
                     tones it will run
                                                                                3 times
                                                          120
                                                 i= 2
                                         1=3
                                                                                 6 times
                                                          K = 6
                                        p 18 tol
                                                  K=0
                      K:00
                                                                            rup 4 time =
                                                          ,20
                                                  1=3
                                                                            rung 12 thrung it
      σ ≥ ξcin = α, ξίο
                                                           4412
                                          the first
                                                                    1=- rup Strang
                                                            17=0
                                       n=5
                                                  ;=U
                                                                            rup 20 fins
      = (n (n-1/n) = 0(n3)
                                           100 Any
                                                    4=0, K< 80, KM
ling day not start at O
 But and olverys reach 1+4C
                                            1=6
 it is decrementing from no!
                                         30 180 hrs
   Thr+(3)
                                                   1-1 12 - 1 tml
                                                   K=1 K=2 - atmes
                                          1=2
```

```
for (Int := 1 ; im; i+) [
 for Cont ker , KED , KH) {
                                          n-3
                                                         K43
                                                    k=1
     AF (ACK)=1) {
                                          wish case scenario: A[I]=1 , A[3]=2, A[3]=3
         for Cotmais inconsmemmin) ?
                                               " whin i=k , it will couse the IF stylement to
                                                 along happens once timen i increments theretice
                                                  happens a firmes
          outer 1000 1-1
          made loop n
                       3 the more for loop any runs alugn times
           if statement: n
          oner loop: togn)
```

In know that the 2 ater loop will always run. The immer outer loop and for not the might outer loop kin run at might mi times from not run all not run

Partic)

Void (3 (IMPA, Imin) & T(1))

If (n=1) rehvn; - Bace case only ran
once
once

FS(A, n=2) - happens of times

1/04)

F3(A, n=2) - happens of times

3

M is not modified inside the it statement, therefore it can the same recusion there with the same value of (n-+),

In arc summing the work it takes

Our each level. At many than an 1/2 large each level costs $2^{\frac{1}{2}}$ Our each level. At many than an 1/2 large each level costs $2^{\frac{1}{2}}$ Our each level. At many than an 1/2 large each level costs $2^{\frac{1}{2}}$ Our each level. At many than an 1/2 large each level costs $2^{\frac{1}{2}}$ Our each level. At many than an 1/2 large each level costs $2^{\frac{1}{2}}$ Our each level. At many than an 1/2 large each level costs $2^{\frac{1}{2}}$ Our each level. At many than an 1/2 large each level costs $2^{\frac{1}{2}}$ Our each level. At many than an 1/2 large each level costs $2^{\frac{1}{2}}$

4

int a = new int [10] o(1)

int see = 10; o(1)

for (1=0 tom) {

int new re= 3 sine;

int b = new int Enewster;

for (j=0 to sec) { 0(1)}

detc[] a; o(1)

a-b; o(1)

see = new rec;

2

The most finish in till need to repte is

1053/2 Smee every time you reach the

max site it makes a new army

that is 3/2 time brigger

2 10(3) = 10\frac{2}{3}

= 10 gran = 10n = how long it will if statement run.

(n-109322)

trygered (total home - Hostrate agust)

" Total runine = 100 +n-183/2n = 11n+183/2n = A(n).