To stmulate disk scheduling Agorithms 1fcf3 # include < Stdio h> # Include < Stdtb. h > Void fofs (and Alquest-quevel), int n. inthead) f int dotal-movement: abs (hood-request queud): for ( =1 ; : <n; 1+15 total movement +: abs (request-queve 6) . Soint f (" Total head movement 1.d In total) int n, head; freutt ( Enter no of requests: "): Scanf ("/.d", &n) int regiost-que oc [m] prints (" Enter request queue \" ) for (:=0; i=n; i+1)f Scarf [" % d" - & siquest - quen [:]]: Scarf ("Enter the initial head fosition").
Scarf ("1.d", & head): f cfs (seguet-queve, n. head); return 0/ y output en Inquists: 8 sequence a5 180 34 119 11 7256 Enter no of Enter request head position 50 Enter initial movement is 64 C. total heal

```
2) 8CA N
# include astdo.h
# sinclude < stdl b h >
Void scar ( sit sequet quese CI, into a lost home
  ent flotal movemed = 0:
  int direction.
  fruit ( End of the droller : )
  Scarl ("Id", Edirection):
 of (disation = = 0) }
    for ( := lost ; :>= 0 :
      if ( == head ) !
         freit ( " "/-d", :): 3
  for (j=0: j==) j+=){
     if (sequed goese Cil == i)f
     total movement + : head;
      frist ("0"):
      for (i=0: i = head: i++){
         if ( := head-1) }
          prints (" " to" .: ):
     for (j-0; j < n; j++) f
        if (sequet - goese GJ = = i)f.
           total movement + + obsthead-i)
            head = i
           friend f (7°10', 1) $ 3 3
       for ( := 200; ix head : i -- ) {
          if ( i = : heard +1) {
```

faint (" "/. d", "); for (i=0; j=n; j++) q. if laqued queue [j] == i) { total-mavement + = abs (he ad-;) head = i; Saint ("%d", i) 3 388 brients ("In Total head movement"/-d", Total-movement) int main () & int n, head; Brintf ("Enter no of requests:"): Scorf ( .. % d' . Ln): int requels-queve [n]; Brist (" Enter unitial head fosition"): Scarf (" "/.d". I head); Scor ( Juguet-queve-n, head): setor 10% Enter suguest sequence 90 (20 30 60 50 80) Enter initial head position 70 Enter total disk sise 200 Enter the head movement direction for high 1 & loc 0.0 Total head movement is 190

5) C-BCAN Finalodo estdions # include estall blus with cross of the post of the last and a mind of and total movement = 0; for (is head; it 2001 it4) 1 f (i= head) & fried (" of.d", ") ) } for (1=0 ; i < x : 1++) f of ( segret - queec ly lai) f Lotoil - movement + - abs (head -i) fact ( "-d" - i) 3 33 Lotal - movement += 200 - head? Bent & ( 200.0 ); head = 0; for [ = 0; 1 < 200; 1+1) if (== 199)! Je ( 1. 1. 1) ; 3 for G=0 ; jea ; jay ) 4 if (sequest-queve [i] + = i) total movement + = glost he ad -i) head : i butf ( "/d . i ) 333 but f (" In Total head Movement 1/d ". Total movement); f dut main () } they are outlessed

int no head? Bernt f l'Enter no & sequests: "). Scanf (" old , In); int request - goeve [n] Severit ( Enter the regret guese (n'); for (i=0) i<n; i++) { Scanf (" ".d", & nequest-queoclis). built ("Enter initial head position"): scorf (" 'l.d". & head): CSAN (Requet guese, m, head) retorn o; Output: Enter no of august: 6 Enter the originals sequence: 210 Enter initial head position; 1 Enterontotal diek size:3 Enter the head movement direct on for high 1 & for Slows or 1 Total head movement -5 (eft ") +1 (10/10) ret su n = (actor(20-1)) m(n-3)+3 m(n-2) + 8 M(n-1) +1 ant fact Cut a) Mathemetical analysis of remeive algorithm