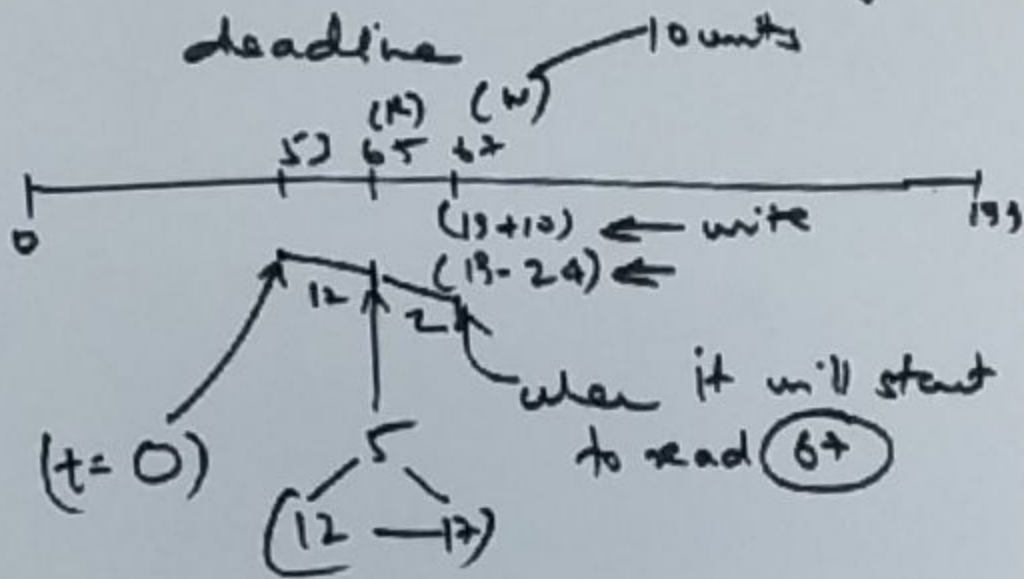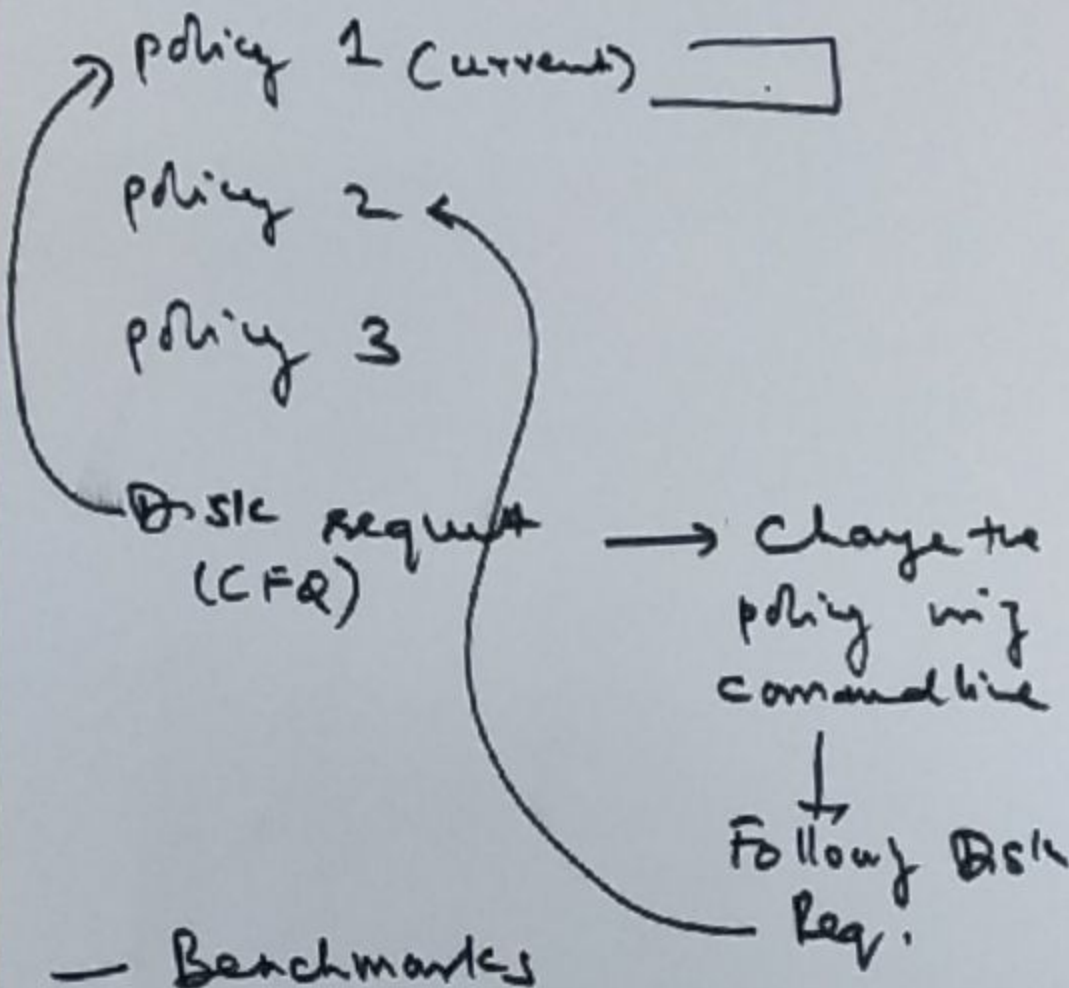# Deadline Driver

- C-SCAM (Default)
- If there is a risk of a disk request missing on given deadline, it prioritizes that req.
- Necessary to check that while C-SCAN is running; no disk req. cross the given deadline ⟍ 10 units

(R) (W)
5) 65 67

(t= 0)

(19+10) ← write
(13-24) ←

12 24
5
(12 →17)

when it will start to read (67)

— Linux — have multiple disk scheduling policies

→ policy 1 (current) [____ .]

policy 2 ←

policy 3

Disk request
(CFQ)

→ Change the policy w/ command line

↓

Following Disk Req.

— Benchmarks
└─ 1-gig-video file

policy 1   policy 2
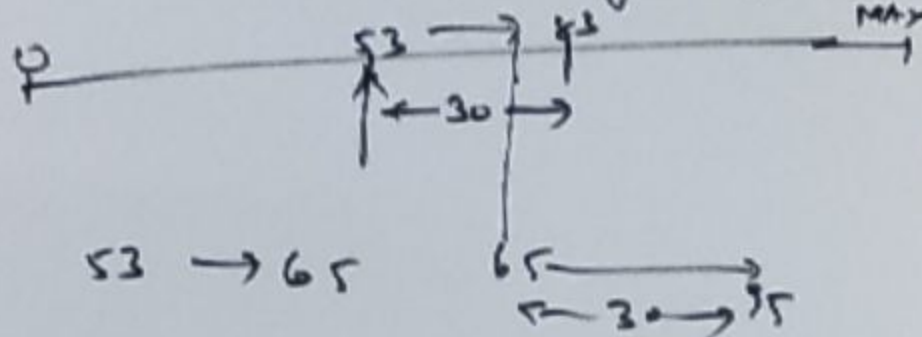
Anticipatory Scheduling

- Wait for certain period for
cht̲ a given locality range ①
Else
C-SCAN / C-LOOK. (given) ②

```
₀├──────────────53──→ 43──────── MAX→
         ↑←─30─┤→
   53 → 65      65←──────→
         ←─30─→ 95
```

- If ① fails
      ↳ Default CSCAN/CLOOK;

- R^(locality)_ange is moving with to
  current head position.

CFQ 92, 113, (37(R7), 122(RT), 14, 124,
                                    65, 67   ②

53   94   199
0├─────────────✗──────────────────────────┤
              ╱│╲   clkly.
             ╱ ● ╲
            ╱   ├┬┬→●
               =
                    (98-53)
           44   ⟶

        → RT(t=10)
  AT ╱
 ─ 0, 4, 9/12, 15, 18, 20, 20
          RT| AT
           |10|

  53 ─────────→ 98 ✗

  53 → 37 → 122 →

t=0   t=10   ⟶ RT   C -SCAN
├────┬──────┬────┬──────┬───────┬────┤
53   63   73   83   93