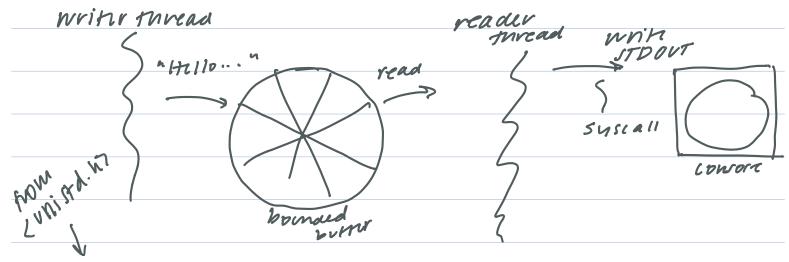
· redo dre on the 13th

## Polling



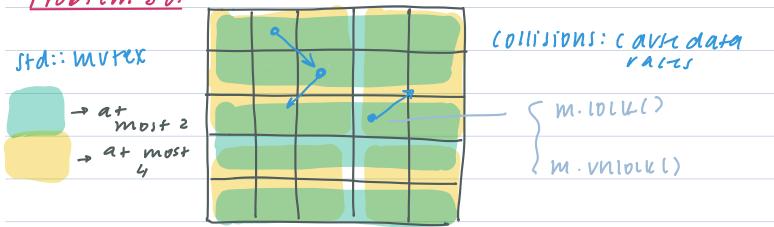
VSMEP (1000000) makes Writer poll

6DB

info threads: lists all threads and where they are blocked thread 3: switches contest to thread 3

bt: backtrace

Problem Szt



- look locally awound the ball

cannot see where ball will end VP-> need to obtain all muticul at the beginning

only 2 balls need to move at the same time

· Cah have onerlapping negions

```
Condition Variables
  polling com versus blocking com
      La correct but intencient
  Read
     when read begins,
          it 1770, Juin
        1. block until citrur mure is at hast I char in but
                            · but is crosed for wining
  Fair
   · INSVVIS Synchronization objects are evenly
     distribund amongst trucaas in system
   Speed => Pairms traduots
    white ( -- . ) ?
        This > monv. unlower)
         schid-yirld(); - not inovan for fair sname
        Thil >> mutcx. lock()
    Std: Londition-variable nommpty-
+ in matural
     Stal: uniqualoux < stal: munx> lock (this -> munx-);
                                     PIOLK until condition
                                     inangus
    WMin ( >...) ?
                                     - FIBLK on HI HONEMPTY
       Mil -> non-compm - . wait (lock);
+ every place the condition might change
    Mil-> nonempty - notity -all();
```

Std:: condition_vanable
Drepresent blocking for a "condition"
-> wenr not imply
-> key was pressed
@ avoids surp-waking rain condition by
integranny nim munx
Wait (std:: unight_low (std::mvhx) &1)
· plocks mail hority
· Lis unlocked blocking NO SLEEP
noting-all ()
· Unblown all waiting tureads KALE!