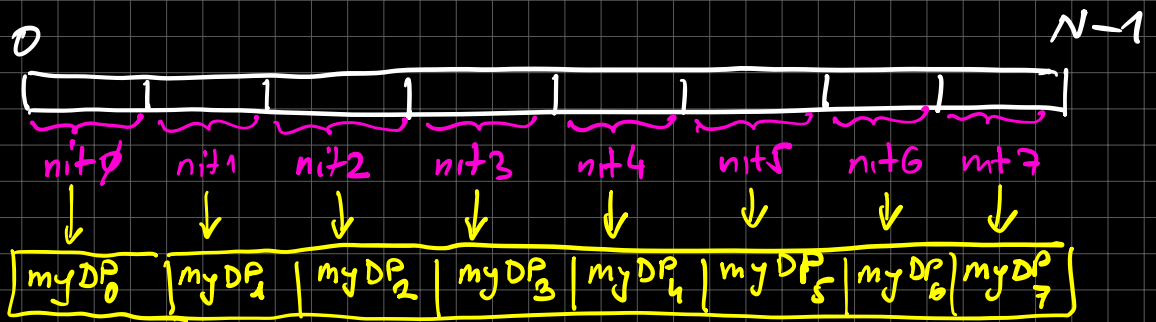
Redukcija

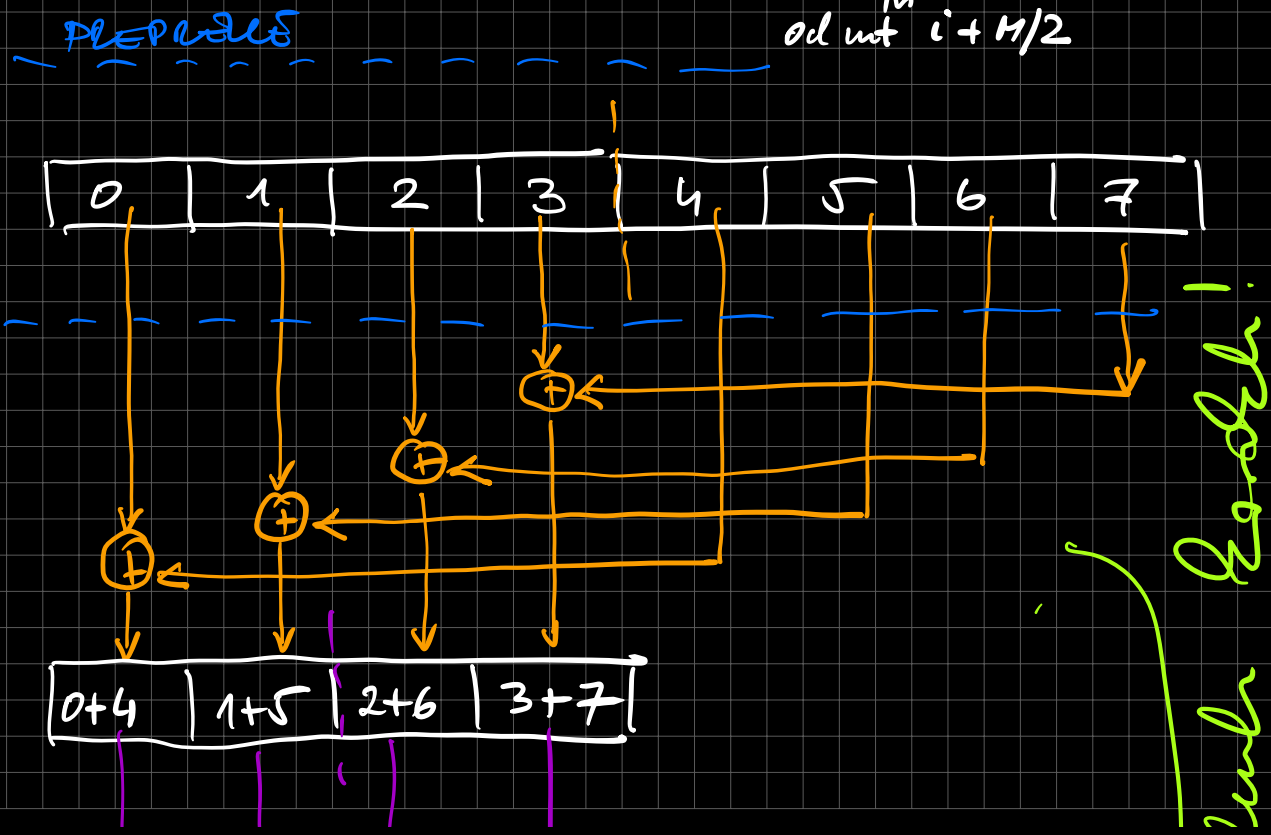
→ kako izmanjšati št. niti zaporednih delov programa (delnih produktov)?

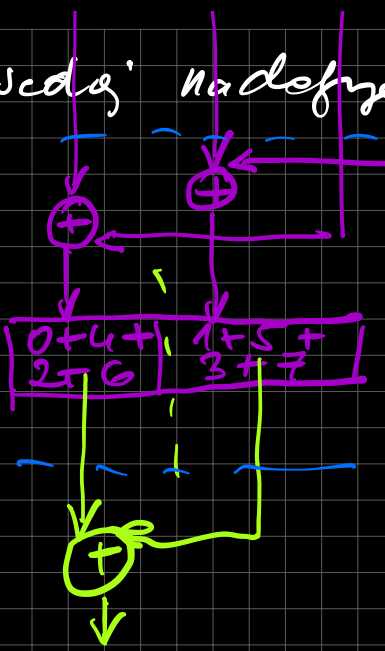
M=8 → št. niti



IDEJA: nadaljujemo z M/2 = 4 niti: 0, 1, 2, 3

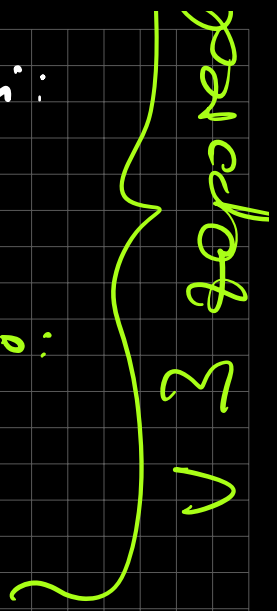
vsaka od teh štirih niti sešteje elem DP-ja: svojega (i) in od niti i + M/2





vsaki nadaljnji $\rightarrow$ $M/4 = 2$ niti:

spet razpolovimo:



Vsaj enem: število potrebnih zaporednih korakov je $\log_2 M$

Nujno potrebujemo PREPREKE!!!

BARRIERS

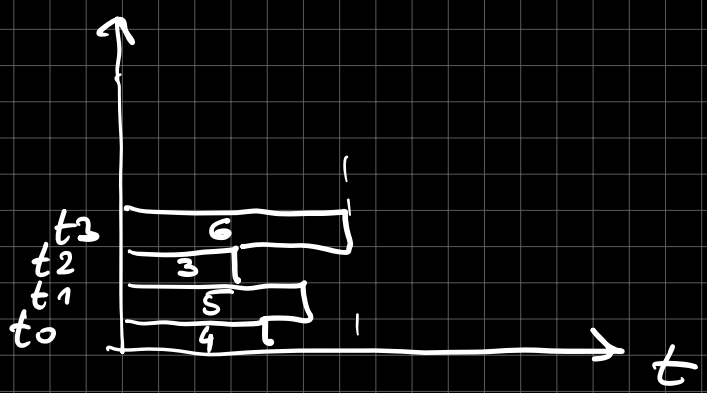
PTHREAD knjižna implementacija prepreke:

- init
- wait
- destroy

Mierzenie czasu

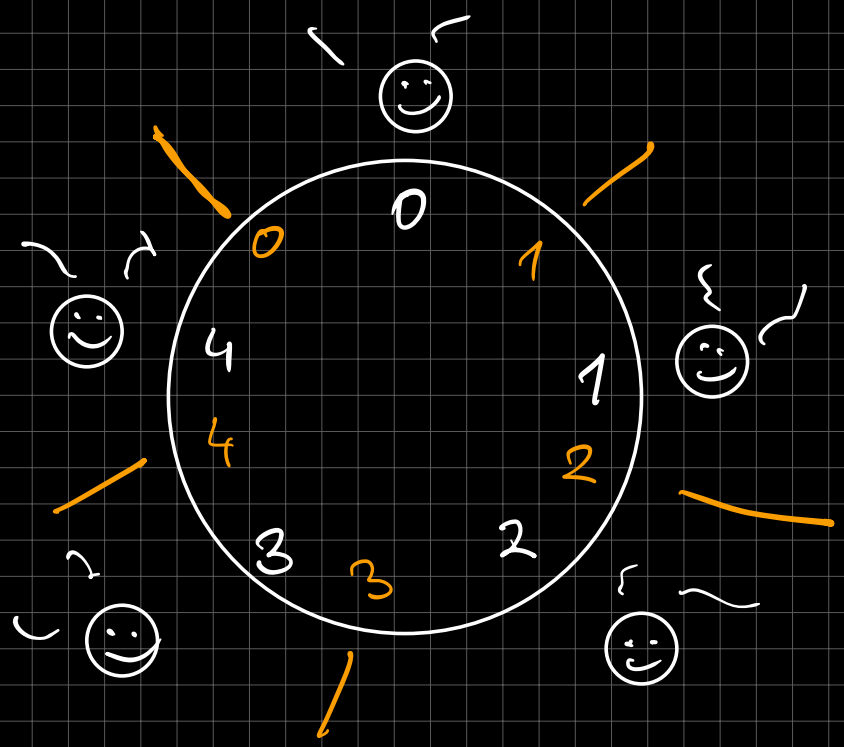
↳ time.h

- clock()
  - ↓
  - całkowity czas procesu = Σ czasów wszystkich wątków
- clock_gettime()
  - ↓
  - czas najpóźniejszego wątku



clock() → 18
clock_gettime → 6

Pet filozofov



Filozofi → niti
Palčke → ključavnice

Filozof: pograbi DESNO palčko
ali
spusti LEVO, DESNO

Filozof Ci:
Desna: i
Leva: (i+1) mod 5

SMRTNÍ OBJEM