- 2) Block norted loop con clusps be used for each block of pages of outer rubion, read all pages of inner one.

 (ast: B(s) + B(R)[1 + B(s)/H] = 2000 + 600(1 + 2007(10)) = 2000 + 6000.31 = 183000

 Two pass algorithm can be used course 6000 + 3000 = 102(102-1)

 (ast: 3(B(R) + B(S)) = 27000

 (generate M(R) and T(S) sublist such that M(R) + M(S) = M. Then read one page for each of them and soin types

 3) Index has 20 data entries per page \(\rightarrow \frac{300000}{20} = 15000 \) pages \(\rightarrow \frac{67}{100} \) rule = 22.500 pages

 30 types for each cost.

 10 values \(\rightarrow \frac{20}{20} = 10 \)

 (at = log 15 22500 + 1 + 300 = 305 R.a.

 4) This ACR course every transaction reads from already commuted transaction

 Precedence graph

 71 \(\rightarrow \frac{73}{2} \)

 11 Act conflict serializable course p graph is not acyclic

 Yes if we delete T2 and T5
- T₂ \ T₅ course T₅ is bost write of V

 T₂ \ T₃ \ C T₃ course T₂ need to read from default \(\text{T}_3 \) \(\text{T}_3 \) \(\text{T}_4 \) \(\text{T}_5 \) \(\text{T}_6 \) \(\t
- $T_2 \rightarrow T_1 \Rightarrow \text{View-equivolent for bost write} \Rightarrow \text{View-revolutable}$ $\cdot \omega_1(x) \, \omega_2(x) \, \omega_3(x)$ Not occepted by 2PL but view-reviolitable $(T_1 \, T_2 \, T_3 \, \text{ or } T_2 \, T_1 \, T_3)$

 $5) \cdot \omega_{i}(x) \omega_{k}(x) \omega_{i}(x)$