reprezentujeme pre menny mi šachovnicu xn=T - na danú poziciu dame Vezu X 12 X 13 X 17 X 21 X 22 X 23 každom riadku/stipci musi byt aspon jedna veža 2 typy klauzul: - splnajuice - ohraničujúce - nesmú sa navzajom ohroziť -pre prvý riadol, aspoň jedno miesto musi byť obsadené splinajuce blanewy: (X11 V X12 V X13) 1 } pre d'alsie riadky 1 (x21 V x 22 V x 23) 1 a zaroveň pre stĺpce 1 (X11 V X21 V X31) 1 1 (X12 VX22 VX32) 1 - pokračujeme s ohraničujúcimi klauzulami Λ $(X_{13} V X_{23} V X_{33}) \Lambda ...$ - X11 a X12 nesmú byť nataz obsadené (preto negacia) phranicijuce: -1. riadok: (XM1 X12) (X11 1 X13) } to ister plati pre d'alsie mozné tombinacie
(X12 1 X13) } v tom to riaden spojime tieto tri klauzuly, a všetko musi platit naraz: - musine upravit do CNF formy pomocou (X11 1 X12) 1 (X11 1 X13) 1 (X12 1 X13)= de Morganowich pravidiu $= (x_{11} \ V \ x_{12}) \ \wedge (x_{11} \ V \ x_{13}) \ \wedge (x_{12} \ V \ x_{13})$ ANB = AVB - 2. riadok: (X21 VX22) 1 (X21 VX23) 1 (X22 VX23) { obdobne pre riadley -3. riadol: $(\overline{x_{31}} \ V \overline{x_{32}}) \wedge (\overline{x_{31}} \ V \overline{x_{33}}) \wedge (\overline{x_{32}} \ V \overline{x_{33}})$ -1. st/pec: (x11 V x21) 1 (x11 V x31) 1 (X21 V X31) a stipce -2. stopec: (x12 V X22) 1 (X12 V X32) 1 (X22 V X32) $-3.5Hpec: (\overline{X_{13}} V \overline{X_{23}}) \Lambda (\overline{X_{13}} V \overline{X_{33}}) \Lambda (\overline{X_{23}} V \overline{X_{33}})$ Vsetly klauzuly spojime do jednej konjuntcie: (x11 VX12 VX13) 1 (x21 V X22 V X23) 1 (X31 V X32 V X33) 1 (x11 V X21 V X31) 1 (X12 V X22 V X32) 1 (X13 V X23 V X33) 1 $\Lambda \left(\overline{X_{11}} \ V \stackrel{4}{\cancel{X_{12}}} \right) \Lambda \left(\overline{X_{11}} \ V \stackrel{7}{\cancel{X_{13}}} \right) \Lambda \left(\overline{X_{12}} \ V \stackrel{7}{\cancel{X_{23}}} \right) \Lambda \left(\overline{X_{21}} \ V \stackrel{7}{\cancel{X_{22}}} \right) \Lambda \left(\overline{X_{21}} \ V \stackrel{7}{\cancel{X_{22}}} \right) \Lambda \left(\overline{X_{21}} \ V \stackrel{7}{\cancel{X_{23}}} \right) \Lambda \left(\overline{X_{21}} \ V \stackrel{7}{\cancel{X_{2$ $\Lambda (x_{11} \vee x_{21}) \Lambda (x_{21} \vee x_{31}) \Lambda (x_{21} \vee x_{31}) \Lambda (x_{22} \vee x_{32}) \Lambda (x_{22} \vee x_{32}) \Lambda (x_{23} \vee x_{23}) \Lambda (x_{23} \vee x_{33}) \Lambda (x$