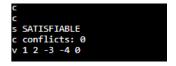
Lab1 - Ex1

```
(D^{(A^B)}) \vee (\neg C^{(A^B)})
(D ^ A ^ B) V (¬C ^ A ^ B)
(A \lor (\neg C \land A \land B)) \land (B \lor (\neg C \land A \land B)) \land (D \lor (\neg C \land A \land B))
(A \lor \neg C) \land (A \lor A) \land (A \lor B) \land (B \lor \neg C) \land (B \lor B) \land (B \lor A) \land (D \lor \neg C) \land (D \lor A) \land (D \lor B)
# (A v A) ~ A
# (A \lor B) \sim (B \lor A) \rightarrow pastram doar (A \lor B)
(A \vee !C) ^ A ^ (A \vee B) ^ (B \vee ¬C) ^ B ^ (D \vee ¬C) ^ (D \vee A) ^ (D \vee B)
# Avem regula de absortie F v (F ^{\wedge} G) ^{\sim} F si F ^{\wedge} (F v G) ^{\sim} F
\# => (A \vee \negC) \wedge A \sim A
    => A ^ (A V B) ~ A
# => A ^ (D v A) ~ A
# => (B v ¬C) ^ B ~ B
\# => B \land (D \lor B) \sim B
A \wedge B \wedge (D \vee \neg C)
Format DIMACS:
1 0
2 0
4 -3 0
```

Folosind https://msoos.github.io/cryptominisat_web/ SAT solver solutia este:



Lab1 - Ex1 1