The class NP is typitied by "gress a certificate and venily it juncky."	TAU (T)
SATISFIABILITY Instance: A Boolean formula $Q$ in variables $X_1, -, X_n$ (SAT)  With connections $A, V, \neg$ (or just NAND $A$ ) allowed.  O(n) < post(n) length  Question: Is there a O-I valved assignment $a = (a, a_2, -a_n)$ that	Fact.
Question: Is there a O-I valved assignment $\tilde{a} = (a_1, a_2,a_n)$ that	We car
Satisfies $\phi$ , fe. such that $\phi(\vec{a}) = \frac{1}{1} rve$ ?	Defn:
to the answer for $\phi$ is yes we can gives $\overline{a}$ and $q$ violet (import $\phi(\overline{a})$ )	C, n.
to verify that it comes out true. We might not know with me have tried (Bot note: if the answer is no, ic. no satisfying assignment exists, all cases a & 80,17%.)	Examp
Here  a =n <  b  because & includes symbols for n variables X1,-X4	If k is  Define 35.
Here $ a =n <  b $ because $\phi$ includes symbols for n variables $x_1, -x_2$ and much else. But, $ox$ to pretend $ b =n$ .  Hence SATENP	In K-CNF, ven
	y(a)=( name





