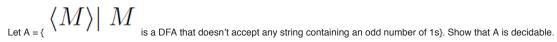
## Problem



## Step-by-step solution

Consider a	ı language,
$A = \{ < M$	$> \mid M$ is a DFA which does not accept any string containing an odd number of 1s}
The langua	age is said to be decidable if there exists a Turing machine for it. Construct a Turing machine for A to check the decidability.
Comment	
	<b>Step 2</b> of 2
The Turing	machine for A is as follows:
I = "On in	nput $<$ <i>M</i> $>$ where <i>M</i> is a DFA:
	onstruct a new DFA $D_X$ that accepts any string containing an odd number of 1s.
	onstruct another DFA $D_Y$ such that $L(D_Y) = L(M) \cap L(D_X)$ .
	heck whether $L(D_Y) = \phi$ , using the $E_{DFA}$ decider $T$ .
4. If	T accepts, accept; otherwise reject."
There exis	sts a Turing machine for A. Therefore, A is decidable.
Comment	