

PDA

Design PDA for accepting:

1. $L = \{0^n 1^{2n} \mid n \geq 0\}$.
2. $L = \{0^{2n} 1^n \mid n \geq 0\}$.
3. $L = \{0^n 1^m 2^n \mid m, n \geq 1\}$.
4. $L = \{0^n 1^m \mid m, n \geq 0, m > n\}$.
5. $L = \{ww^R \mid w \in \{a,b\}^+\}$.
6. All sequences of matching parentheses, ex $()$, 00 , $(())$, $((00))$, etc .