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② a)

$P \rightarrow \text{prev} = \text{NULL};$

$P \rightarrow \text{next} = \text{listPtr} \rightarrow \text{first};$

$\text{listPtr} \rightarrow \text{first} = P;$

b) $P \rightarrow \text{prev} = \text{listPtr} \rightarrow \text{last};$

$P \rightarrow \text{next} = \text{NULL};$

if ($P \rightarrow \text{prev} \rightarrow \text{parity} == 0$)

$P \rightarrow \text{parity} = 1;$

$\text{listPtr} \rightarrow \text{last} = P;$