Valid:

S->0S0

S->1S1

S->2

Enter the Input string followed by $

001121100$

STACK Input ACTION

----- ------- ------

$ 001121100$ SHIFT

$0 01121100$ SHIFT

$00 1121100$ SHIFT

$001 121100$ SHIFT

$0011 21100$ SHIFT

$00112 1100$ Reduce S->2

$0011S 1100$ SHIFT

$0011S1 100$ Reduce S->1S1

$001S 100$ SHIFT

$001S1 00$ Reduce S->1S1

$00S 00$ SHIFT

$00S0 0$ Reduce S->0S0

$0S 0$ SHIFT

$0S0 $ Reduce S->0S0

$S $ It is an Valid String.....!

Invalid:

S->0S0

S->1S1

S->2

Enter the Input string followed by $

012101$

STACK Input ACTION

----- ------- ------

$ 012101$ SHIFT

$0 12101$ SHIFT

$01 2101$ SHIFT

$012 101$ Reduce S->2

$01S 101$ SHIFT

$01S1 01$ Reduce S->1S1

$0S 01$ SHIFT

$0S0 1$ SHIFTIt is an Invalid String......!