

Answer on Question#38641 – Math - Other

We have the set $S = \{0,1,\#\}^+ - \{b_1\#b_2\# \dots \#b_n | n \geq 1\}$

The set describes all strings of 0's and 1's separated by #, where there's at least one pair of consecutive 0's and 1's having equal length. For example 00#00, 0#00#000#00, and 000#00#0#000 are in S , while #00#000, 00, and #00 are not in S . We can see that the context-free grammar generates the set, so the set is context-free.

Answer: B.