We have been tasked with providing an s- grammar for L = { anbn+1 | n >= 1}

Note, s-grammar form:

A 🡪 ax

Where a is a terminal i.e.. in T

Where x is any number of variables (including none) i.e.. in V\*

Where (A, a) Variable, terminal pairs can only appear ONCE per production.

Note: An example of a non s-grammar would be : S🡪 aSb | aSSb | λ, because (S,a) is found twice in the set of productions for S.

We can construct the s-grammar with the following productions:

S 🡪 aSB | b

B 🡪 b

