../../../../Screen%20Shot%202016-10-28%20at%204.03.03%20PM.

Again, the messenger variable is a great trick to solve this problem.

S 🡪 b {base case} | aAbbc {add at least 1 b}

aAb 🡪 ab{exit} | aabbB {optional, if you add 1’b’ add 1’a’ and ’c’} | aAbb {add any number of b’s}

bBb 🡪 bbB

bBc 🡪 Cbcc

bCb 🡪 Cbb

aCb 🡪 aAb

