

CS305 Tutorial-6

1. Is the language $L = \{a^n b^n \mid n \geq 1\} \cup \{b\}$ deterministic?
2. Show that every regular language is a deterministic context free language.
3. Show that if L_1 is deterministic context free and L_2 is regular, then the language $L_1 \cup L_2$ is deterministic context free.
4. Based on your knowledge on C language, write formal Grammar (CFG) for following:
 - a. for loop statement
 - b. variable declaration (assume only for int, char, float type).

