**Check AB**

Suppose you have a string made up of only 'a' and 'b'. Write a recursive function that checks if the string was generated using the following rules:

a. The string begins with an 'a'

b. Each 'a' is followed by nothing or an 'a' or "bb"

c. Each "bb" is followed by nothing or an 'a'

If all the rules are followed by the given string, return true otherwise return false.

Solution:

bool checkAB(char s[]) {

if(s[0]=='\0')

return true;

else if(s[0]=='a')

{

if(s[1]=='a')

return checkAB(s+2);

else if(s[1]=='b' && s[2]=='b' && s[3]!='b')

return checkAB(s+3);

else

return checkAB(s+1);

}

else

{

if(s[0]=='b' && s[1]=='b' && s[2]!='b'){

return checkAB(s+2);

}

else

return false;

}

}