Problem of the Week
Problem E
It's a BAD DAY

Contrary to the title of the problem, it's not really a bad day. However, the two words, BAD and DAY are going to be used in this problem.

The six letters, B, A, D, D, A, and Y are arranged to form six letter "words". When examining the "words", how many are there in which the letters B, A and D are not adjacent to each other and in that order or the letters D, A and Y are not adjacent to each other and in that order?

The following four "words" are examples of unacceptable words.