Bryan Jones, Chase Johnson, Anna Olmedo, Gustavo Rodriguez

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a = True   b = True   c = False

1) a and b and c   **2) a or b or c**

   True & True & False   True | True | False

            False   True

3) (not (a and not b) or (not c and b)) and ((not b) or (not a and b and not c) or (a and not b))

      (True | True)   &   (False | False | False)

                  True   False

                              False

4) (not ((b or not c) and (not a or not c))) or (not (c or not (b and c))) or (a and not c) and (not a or (a and b and c) or (a and ((b and not c) or (not b))))

(not(T or T) and (F or T))) or (not(F or not(T and F))) or (T and T) and (F or (T and T and F) or (T and ((T and T) or (f))))

(F and T) or (not(F or T)) or (T) and (F or (F) or (T and ((T) or (F))))

F or (F or T and (F or F or (T and T)))

F or (F or T and (T))

F or T

True