6 A library contains 4 identical copies of book *A*, 2 identical copies of book *B* and 5 identical copies of book *C*. These 11 books are arranged on a shelf in the library.

    (i) Calculate the number of different arrangements if the end books are either both book *A* or both book *B*. [4]

(ii) Calculate the number of different arrangements if all the books *A* are next to each other and none of the books *B* are next to each other. [5]

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