

The number of arrangements of the letters of the word BANANA in which the two N's do not appear adjacently is  
(2002S)

- (a) 40      (b) 60      (c) 80      (d) 100

(a) Total number of ways of arranging the letters of the word BANANA is  $\frac{6!}{2!3!} = 60$ . Number of words in

which 2 N's come together is  $\frac{5!}{3!} = 20$ .

Hence the required number =  $60 - 20 = 40$