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Let  $\pi_1 = (a_1, \dots, a_n)$  and  $\pi_2 = (b_1, \dots, b_n)$  be two degree sequences. We say that the degree sequences pack if there exist edge disjoint graphs  $G_1$  and  $G_2$  with the given degree sequences on the same  $n$  vertices such that the  $i$ th vertex has degree  $a_i$  in  $G_1$  and degree  $b_i$  in  $G_2$ . We give some sufficient conditions for when two degree sequences pack. (Received September 10, 2009)