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*A note on products of primes that differ by a fixed integer,*  
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**Abstract**

Let  $d$  be a fixed even integer. We characterize positive integers  $n$  that are products of two primes that differ by  $d$ . These characterizations are in terms of Euler's  $\phi$  function and the sum of divisors function  $\sigma$ , and generalize some known results in the case  $d = 2$ .