Which of the following statements about partial solutions will be **most useful** as part of an optimality proof for our greedy gas station algorithm? (Assume *G* denotes the greedy solution and *O* the optimal)

A. After *i* kilometres, *G* has made no more stops than *O* 

B. After i kilometres, there can be no stop made by G that wasn't also made by O

- C. The  $i^{th}$  stop in G is the same as the  $i^{th}$  stop in O
- D. The  $i^{th}$  stop in G is at least as far down the road as the  $i^{th}$  stop in O

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