

Boston to Seattle

You're planning to drive from Boston to Seattle on I-90 this summer, and have a GPS programmed with the locations of gas stations along the way. Assuming that your car can go 400 miles on a tank of gas, determine where you should stop for gas in order to make as few stops as possible.

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- series-of-choices patterns and flavors

task	iterative pattern	choice
subset	process input	include element in the solution or not
	produce output	which element to include in the solution next
ordering	process input	where to add the element into the solution-so-far
	produce output	which element to append to the solution-so-far
labeling	process input	the label to give the element

What will be the choice in the series of choices?

- include the element in the solution or not
- which element to include in the solution next
- where to add the element into the solution-so-far
- which element to append to the solution-so-far
- the label to give the element
- whether to stop at the current gas station
- which gas station to stop at next**
- where the current gas station goes in the list of stops
- which gas station to add to the end of the list of stops
- assign "stop" or "don't stop" to the station

"gas stations to stop at" is a subset task
there is an ordering to the gas stations along the route, but this is dictated – there's only one possible ordering of a particular set of stops

- subset wording, process input
- subset wording, produce output
- ordering wording
- labeling wording

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- main steps: while not within 400 miles of Seattle, pick which gas station to stop at next

