# **Inspirational Hotel Shopping with Split Search**



### Have you ever:

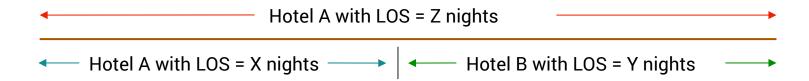
- Tried to book a hotel but found "No Rooms Available" for your trip date rage?
- Wanted a lower room rate for the same (or higher) quality?
- Planned to visit multiple attractions across town, and wanted to stay closer to them?

If you are willing to split your hotel stay across multiple properties, then our "Inspirational Hotel Shopping with Split Search" prototype provides an exciting new automated search solution.



#### How does it work?

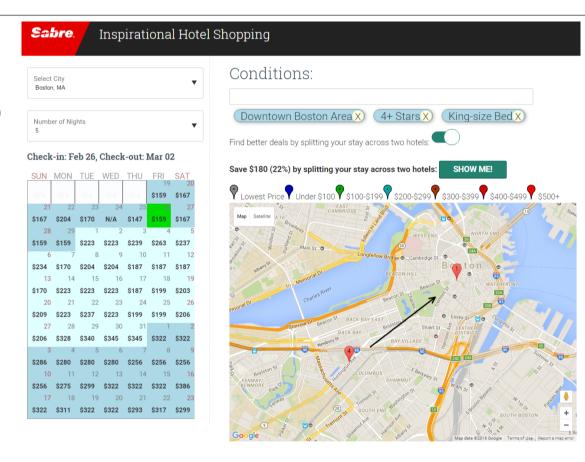
- Traditional hotel search returns prices by hotel for a specific length of stay; e.g.: 4-star Hotel A with length of stay (LOS) = Z days
- The Split Search considers all combinations of hotels and lengths of stays to find the lowest average daily rate for a given quality rating; e.g.:





## Split hotel stays for longer length of stays

- Search optimization
  - 4-star Hotel A, LOS = X days (where X is in the set {0, 1, ..., Z})
  - 4-star Hotel B, LOS = Y days (where Y is in the set {0, 1, ..., Z})
  - Search all combinations such that X + Y = Z
  - Find best mix to minimize price





# THANK YOU

