

# Heuristic Search Study Guide

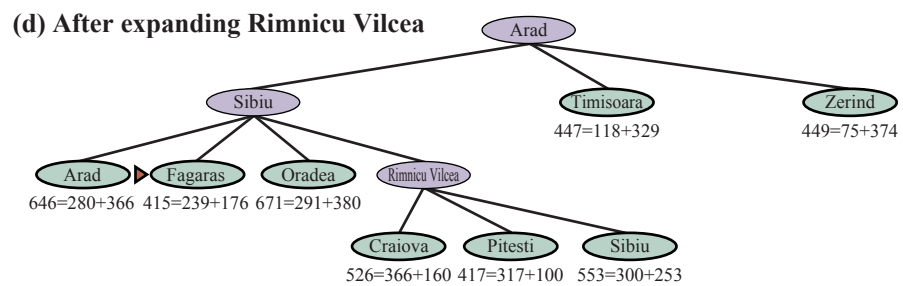
## Artificial Intelligence

### 1 Heuristic Search

1. What is a heuristic function?

2. How do you use Best-First Search to implement  $A^*$  search?

3. In this diagram, nodes are marked with their  $A^*$  heuristic values,  $f(n) = g(n) + h(n)$ . Which node will be the next node expanded by  $A^*$ ?



4. Define admissible heuristic.

