

1) Greedy Search:

Warsaw  $\xrightarrow{3}$  Munich  $\xrightarrow{3}$  Venice  $\xrightarrow{0}$  Rome

A\* Search      Letters represent cities

W

WM (18)

WMV (24)

WB (21)

WBM (36)

WMVR (30)  $\rightarrow$  output

expanded paths

The heuristic is admissible and consistent

It is admissible because no expanded node overstates the cost of arriving at Rome.

It is consistent because at each step, the cost of getting to Rome decreases.