

Problem Solving and Search in AI Tutorial 5 (on June 24th)

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Exercise 5.1

Consider the constraint graph G of Exercise 1.1 (the crossword puzzle). Compute the tree-decomposition of G using the elimination ordering of the min-fill heuristic. How could one solve the problem with the resulting tree-decomposition?

Answer the following questions:

1. What is the width of the particular tree-decomposition?
2. How big is the search space of G ?
3. How big is the search space for the tree-decomposition?