

Programming Assignment 7

Due by December 21, 9:00 PM; No late submission!

1. For this homework, we complete the “ladders” game project. There are 9 files in **hw7.zip**. Please submit only **path.c**. You are not allowed to change any other files.
2. This is the last programming assignment. No late submission is accepted!
3. Again, you can modify only **path.c**, and submit only this file. In this file, you are supposed to implement BFS algorithm on the graph constructed in **backend.c**, and all the necessary data structures for BFS and BFS-tree. For example, you will need to implement a queue. The easiest way is probably to use an array of size $N = 5757$ with which we don't have to worry about overflow.
4. Included in **hw7.zip** is the binary file **ladders_demo**, which is executable on our linux server. You can test your own program **ladders** against **ladders_demo**. In other words, your program must behave exactly the same as **ladders_demo**.