

Testing grep.c (100 pts)

- Generate test cases using CROWN for grep. You are requested to modify grep.c to create test cases through CROWN. You should report the following items carefully:
 1. Describe which variables are declared symbolically and how
 - How long is a target pattern, a target file, options, etc
 2. Describe how you modified the target code to improve branch coverage
 3. Create 10,000 test cases per each of the 4 different search strategies - dfs, random, cfg, random_input
 4. Measure the final branch coverage (i.e., condition coverage in the original target program) reported by gcov
 - You should report the branch coverage per search strategy
 - You can do this by analyzing branch and coverage output file
 - Also draw 4 coverage increase graphs for all 4 search strategies

(option) The persons who achieve the best, 2nd best coverage will get **extra 100 points**.

