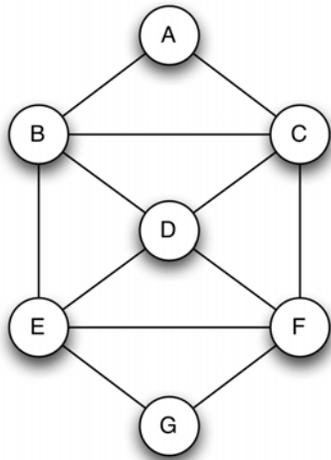# Problem Wk.13.3.2: Compare Searches

We are going to compare different search techniques on this graph. Assume that:

- the start state is A
- the goal state is **G** (!!!)
- the successors of a state are pushed onto the agenda in alphabetical order
- we are not considering paths that revisit the same state (within the path)

Enter each of your answers below as a sequence of state names, with no punctuation, e.g. A B D.

1. What sequence of paths are pushed on the agenda by breadth-first search without dynamic programming (write only as many paths as fit below -- they will not necessarily reach the goal):
   1. A
   2. A B
   3. A C
   4. [ ]
   5. [ ]
   6. [ ]
   7. [ ]
   8. [ ]
   9. [ ]
   10. [ ]
   11. [ ]
   12. [ ]
   13. [ ]
   14. [ ]

   Final path is [ ]

2. What sequence of paths are pushed on the agenda by breadth-first search with dynamic programming (write only as many paths as fit below -- they will not necessarily reach the goal):
   1. A
   2. A B

3. A C
4. [   ]
5. [   ]
6. [   ]

Final path is [   ]

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