```
bool puzzle::isUnique(vector< vector<char> > puzzle){
         for(int i = 0; i < prevStates.size(); i++){</pre>
                  if(puzzle == prevStates.at(i)){
                           return false:
                  }
         return true;
}
void puzzle::displayPuzzle(path* x){
         if(x != rootNode)
                           cout << "The best state to expand with a g(n)</pre>
= ";
                           cout << x->branchCost;
                           cout \ll " and h(n) = ";
                           cout << x->heuristic;
                           cout << " is..." << endl;
                  }
         for(int i = 0; i < 3; i++)
                  for(int j = 0; j < 3; j++)
                           cout << x->puzzle.at(i).at(j) << " ";</pre>
                  cout << endl;</pre>
         }
         cout << endl;</pre>
}
```