```
import math
def minimax(node, depth, is_maximizing):
    Implement the Minimax algorithm to solve the decision tree.
   node (dict): The current node in the decision tree, with the following structure:
       {
            'value': int,
            'left': dict or None,
            'right': dict or None
   depth (int): The current depth in the decision tree.
    is_maximizing (bool): Flag to indicate whether the current player is the maximizing player.
   int: The utility value of the current node.
   # Base case: Leaf node
   if node['left'] is None and node['right'] is None:
       return node['value']
   # Recursive case
    if is_maximizing:
       best value = -math.inf
       if node['left']:
           best_value = max(best_value, minimax(node['left'], depth + 1, False))
        if node['right']:
           best_value = max(best_value, minimax(node['right'], depth + 1, False))
       return best_value
   else:
       best_value = math.inf
       if node['left']:
           best_value = min(best_value, minimax(node['left'], depth + 1, True))
        if node['right']:
           best_value = min(best_value, minimax(node['right'], depth + 1, True))
        return best_value
# Example usage
decision_tree = {
    'value': 5,
    'left': {
        'value': 6,
        'left': {
            'value': 7,
            'left': {
                'value': 4,
                'left': None,
                'right': None
            },
            'right': {
                'value': 5,
                'left': None,
                'right': None
        },
        'right': {
            'value': 3,
            'left': {
               'value': 6,
               'left': None,
                'right': None
            },
            'right': {
                'value': 9,
                'left': None,
                'right': None
       }
    'right': {
        'value': 8,
        'left': {
            'value': 7,
            'left': {
                'value': 6,
                'left': None,
                'right': None
            'right': {
```

```
'value': 9,
                   'left': None,
'right': None
          },
          'right': {
               'value': 8,
              'left': {
                    'value': 6,
                   'left': None,
                   'right': None
              },
'right': None
         }
    }
}
\ensuremath{\text{\#}} Find the best move for the maximizing player
best_value = minimax(decision_tree, 0, True)
\label{print} {\tt print(f"The\ best\ value\ for\ the\ maximizing\ player\ is:\ \{best\_value\}")}
\rightarrow The best value for the maximizing player is: 6
```