A **CSP** is specified by the following inputs:

vars   A list of variables; each is atomic (e.g. int or string).

domains   A dict of {var:[possible_value, ...]} entries.

neighbors   A dict of {var:[var,...]} that for each variable lists
           the other variables that participate in constraints.

constraints A function f(A, a, B, b) that returns true if neighbors
           A, B satisfy the constraint when they have values A=a, B=b

```python
def backtracking_search(csp,
            select_unassigned_variable = first_unassigned_variable,
            order_domain_values = unordered_domain_values,
            inference = no_inference):
```

Variable ordering – first_unassigned_variable, mrv

Value ordering – unordered_domain_values, lcv

Inference – no_inference, forward_checking, mac

```
>>> backtracking_search(australia) is not None
True
>>> backtracking_search(australia, select_unassigned_variable=mrv) is not None
True
>>> backtracking_search(australia, order_domain_values=lcv) is not None
True
>>> backtracking_search(australia, select_unassigned_variable=mrv,
                                    order_domain_values=lcv) is not None
True
>>> backtracking_search(australia, inference=forward_checking) is not None
True
>>> backtracking_search(australia, inference=mac) is not None
True
>>> backtracking_search(usa, select_unassigned_variable=mrv,
                            order_domain_values=lcv, inference=mac) is not None
True
```