Algorithm 1 fillColor(vertex)
_____
1: choseOneColor(vertex)

2: **if** !conflict(vertex) **then**

3:     fillColor(nextvertex)

4: **end if**
_____

Algorithm 2 fillColor(vertex)
_____
1: choseOneColor(vertex)

2: **if** !conflict(vertex) **then**

3:     nextvertex←MaxDegreeVertex()

4:     fillColor(nextvertex)

5: **end if**
_____

Algorithm 3 fillColor(vertex)
_____
1: choseOneColor(vertex)

2: **if** !conflict(vertex) **then**

3:     nextvertex←MinRemainingValueVertex()

4:     fillColor(nextvertex)

5: **end if**
_____

Algorithm 4 fillColor(vertex)

1: choseOneColor(vertex)

2: **if** ForwardChecking() and !conflict(vertex) **then**

3:     fillColor(nextvertex)

4: **end if**