APPROX-MIN-WEIGHT-VC(G, w)

```
1  C = ∅
2  compute x̄, an optimal solution to the linear-programming relaxation
       in lines (35.15)–(35.18)
3  for each vertex v ∈ V
4       if x̄(v) ≥ 1/2
5            C = C ∪ {v}
6  return C
```