

# Approximation Algorithms

**Approx\_Verex\_Cover**  
is a 2-approximation  
algorithm.

```
Approx_Verex_Cover(G) /* G = (V,E) */
1  C = ∅
2  E' = E
3  while E' ≠ ∅
4    let (u,v) be an arbitrary edge of E'
5    C = C ∪ {u,v}
6    remove from E' every edge joining either u or v
7  return C
```

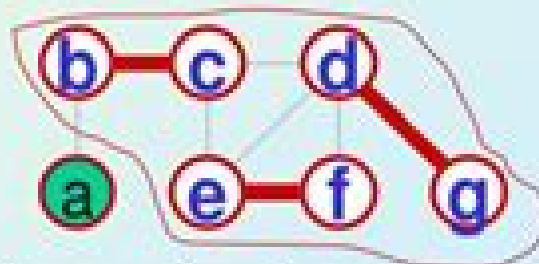
**Proof:**

Consider line 4. Suppose there are totally  $|A|$  edges considered in line 4.

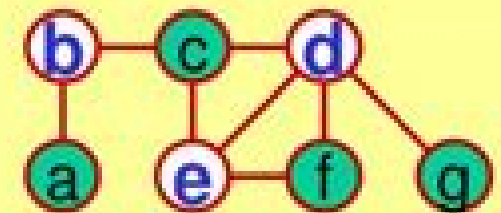
Then  $|C^*| \geq |A|$

But  $|C| = 2|A|$

Hence  $|C| = 2|A| \leq 2|C^*|$



Near-optimal solution (C)



Optimal solution (C\*)

# Approximation Algorithms

**Camilla Rothe**



## **Approximation Algorithms:**

## Whispering the Secrets of Language: An Mental Journey through **Approximation Algorithms**

In a digitally-driven earth where monitors reign supreme and instant connection drowns out the subtleties of language, the profound secrets and emotional subtleties hidden within phrases often move unheard. However, located within the pages of **Approximation Algorithms** a charming literary treasure blinking with raw emotions, lies an exceptional journey waiting to be undertaken. Composed by a skilled wordsmith, this charming opus encourages readers on an introspective trip, delicately unraveling the veiled truths and profound affect resonating within the fabric of every word. Within the mental depths of this emotional evaluation, we will embark upon a genuine exploration of the book is primary styles, dissect their charming writing design, and succumb to the strong resonance it evokes serious within the recesses of readers hearts.

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