

Approximation Algorithms

Approx_Verx_Cover
is a 2-approximation
algorithm.

```
Approx_Verx_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
```

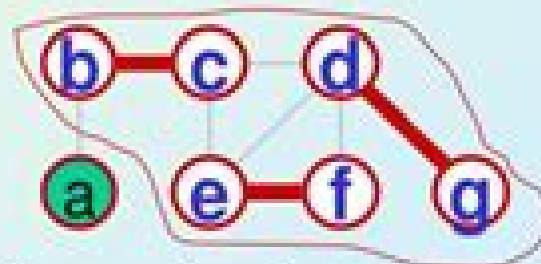
Proof:

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

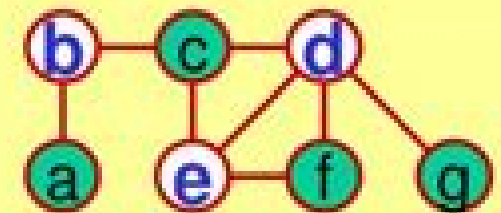
Then $|C^*| \geq |A|$

But $|C| = 2|A|$

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



Near-optimal solution (C)



Optimal solution (C*)

Approximation Algorithms

J Elliott



Approximation Algorithms:

Decoding **Approximation Algorithms**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Approximation Algorithms**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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