

Pracise Exercise on Set Cover

The solutions will be available in 1-3 weeks in one of the following modules.

Consider the Set Cover Problem. Let $F(i)$ be the frequency of element i , i.e., the number of sets containing i . Let $F = \max_i \{F(i)\}$ be the maximum frequency. Design an algorithm giving an F -approximation with a running time of $O(\# \text{ of elements} \cdot \# \text{ of sets})$.