Input: A universe *U* of n elements, a collection of subsets of *U*, T = {S_1 ,...,S_k}, and a cost function c : S -> Q.

Output: A subset T' of T s.t. *U*=$\bigcup_{S_i \in T}$, S_i

1. $C \leftarrow \emptyset$
2. While $C \neq U$ do
   Find the most cost-effective set in the current iteration, say S.
   Let $\alpha = \frac{\text{cost}(S)}{|S-C|}$, i.e., the cost-effectiveness of S.
   Pick S, and for each $e \in S - C$, set $\text{price}(e) = \alpha$.
   $C \leftarrow C \cup S$.
3. Output the picked sets.

1、实现上述 Set cover 算法。

2、提交报告一份。需包含以下内容：核心源代码、构造的数据、运行结果。

3、编程语言不限。