greedy-set-cover(S, w)1. Initialize  $C \leftarrow \emptyset$ . Define  $f(C) \doteq |\bigcup_{s \in C} s|$ . 2. Repeat until f(C) = f(S):

Choose  $s \in S$  minimizing the price per 3. element  $w_s/[f(C \cup \{s\}) - f(C)]$ .

Let  $C \leftarrow C \cup \{s\}$ .

5. Return C.