Problem 1

Each subset is only considered once per loop. $O(n + R)$

Problem 2

Initializing inverted index $O(m)$, loop is same as before. Total $O(m + n + R)$

Problem 3

Initializing inverted index $O(m)$, initializing priority queue and inserting $O(n \log n)$, looping through skill sets (each T_j only considered once) $O(R \log(n))$. Total $O(m + n \log n + R \log n)$