```
Q2
// let the set of n fractions be A
// let the size of the set be n
Q2 iter(A,n)
Boundary max = min(A) //O(n)
E = 1
While 1 == 1 do
   sum of A = 0
   while counter < n do
       sum of A += x[counter]/(y[counter] - E)
   end do
   If sum of A == S do
       break
   If sum of A > S do
       E = (Boundary_max - E) / 2
   else do
       E = (Boundary max + E) / 2
Return E
Time complexity: n(find min) + n*log(set(min))
Therefore the time complexity is O(n *
log(min(set))
```