

FRACTIONAL-KNAPSACK( $v, w, W$ )

$load = 0$

$i = 1$

**while**  $load < W$  and  $i \leq n$

**if**  $w_i \leq W - load$

        take all of item  $i$

**else** take  $(W - load)/w_i$  of item  $i$

    add what was taken to  $load$

$i = i + 1$