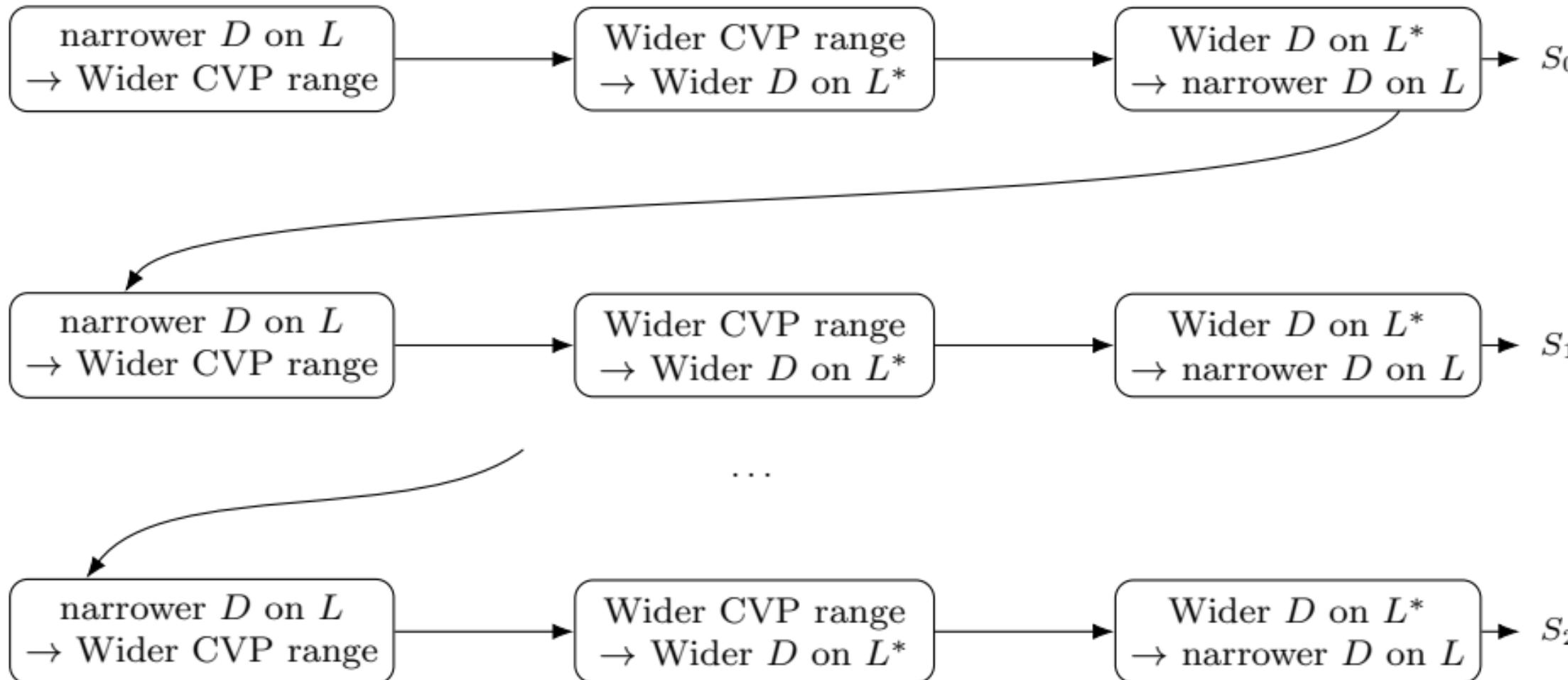


repeat  $2n$  times



cardinality of  $S_i$   
is decreasing

longest lattice vector  
length in each  $S_i$   
is decreasing