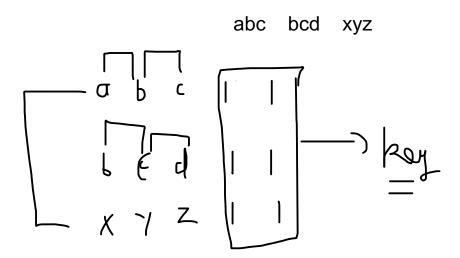
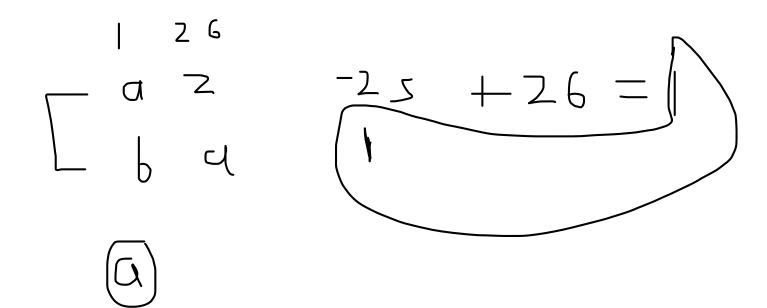
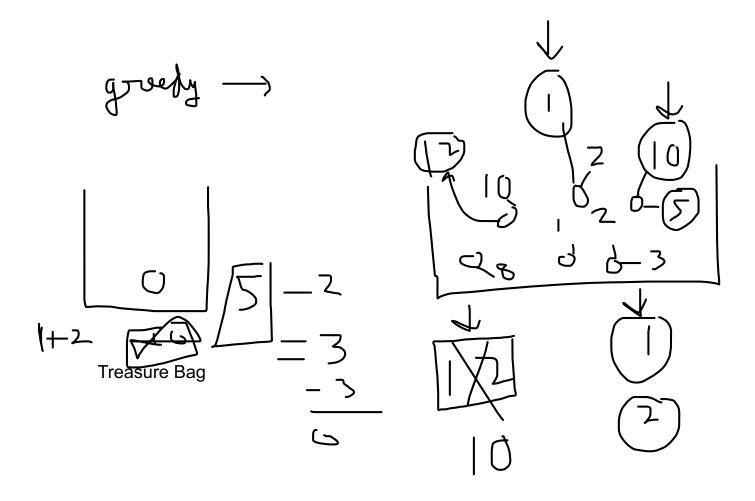
Group Shifted Strings

| 23 abcdefghijklmnopqrstuvwxyz





Greedy Algorithm



Fractional Knapsack

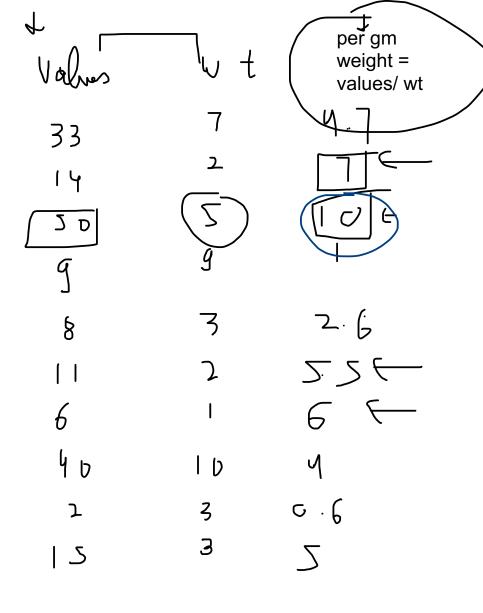
n Com

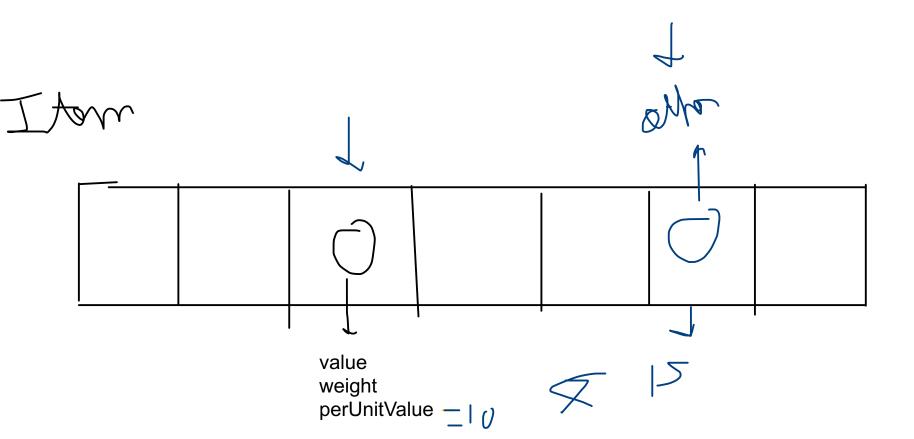
$$\begin{array}{c|c}
5 & 4 & 11 \\
\hline
10 & -5 & = 5 & -2 & -3 & -1 & = 2 \\
\hline
2 & & & & & & & & & & \\
greedy & & & & & & & & \\
\hline
greedy & & & & & & & & \\
greedy & & & & & & & & \\
\end{array}$$

per gm

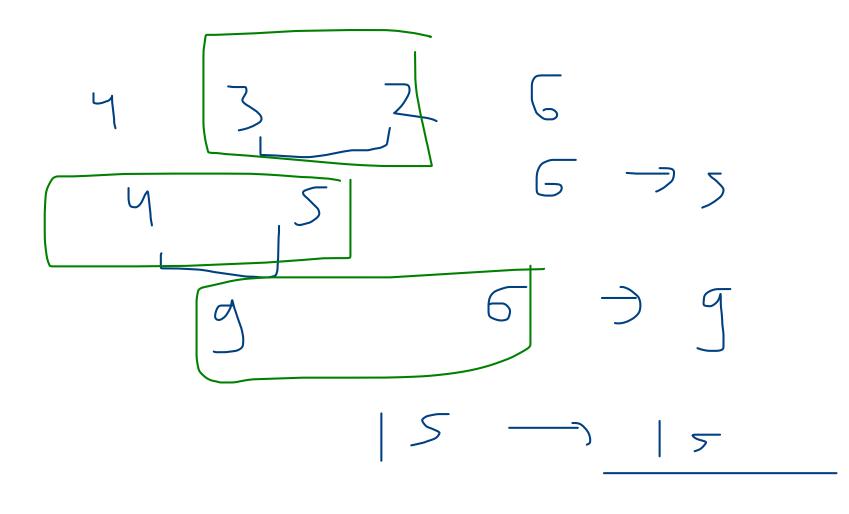
weight

S





Connect n ropes with minimum





$$\frac{2}{3} = 5 + 9 + 15$$

$$2+3-5$$
 $45-5$
 $5-5$
 $5-5$