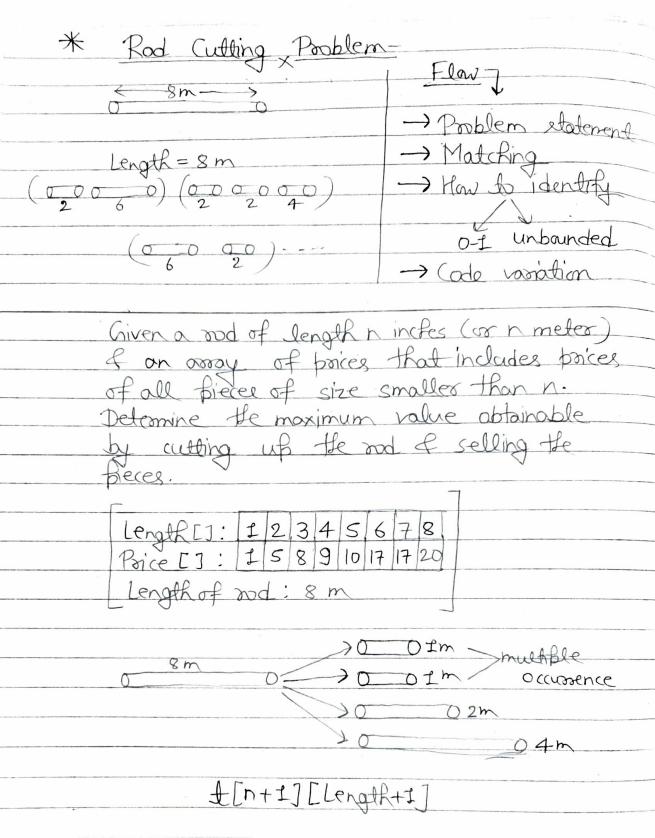
* Unbounded Knopsack- (multiple occurrences)
Flow-
-> Recall differences
-> See code différent variation.
Related problems-
→ Rod Culting  → Coin change I  → Coin change II
-> Coin change II
1xloximum Kibbon cut
V-> It can be firstles check
X-> Proceed V
Multiple occurrencel- neans he can use
times we hant. But if he don't
chose that item then he will never
come back to that item.

1,9003901	0	1	2	3	4	,5	, 6	
0	0	0	0	0	0	0	0	
ſ	0	-	-				- I	
2	0			967				
3	0	×,						
4	0							
- size								
if	Class	10 TQ	-1] <	(= )	)			+ + [i][j-w+[i-1]]
	A F	0755	7 = r	nax	(V	elle	-1]-	+ + [i][j-w+[i-1]]
	JL	XJLV				,	11	i-17[j]);
el	20							
2	SE	ij[j	1 =	OT Q	-17[	· j7		
	XL	XJ LJ	J			- 0		



Program-

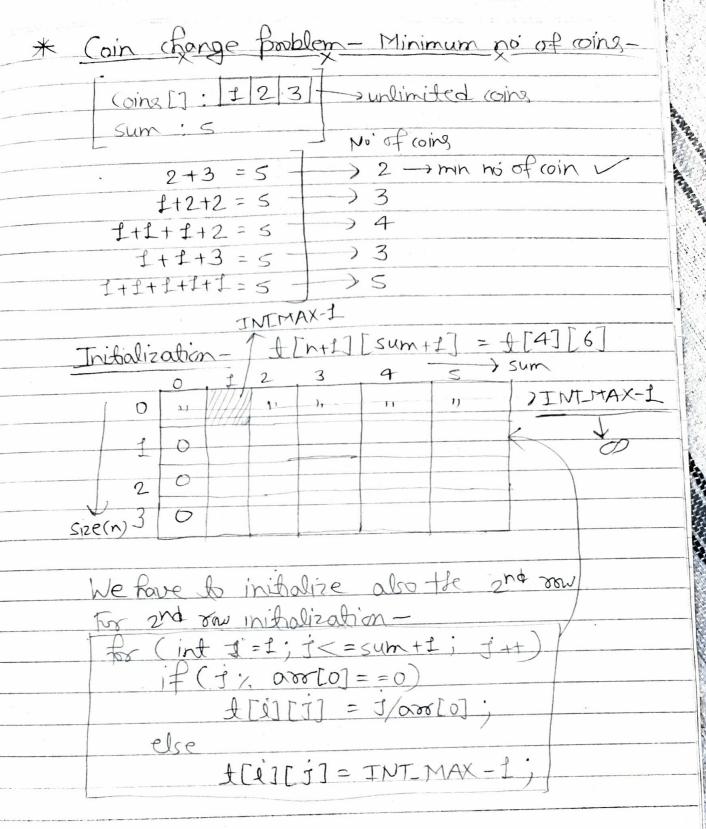
if ( Length [i-1] <= j)

\$ [ i] [ i] = max ( Price[ i-1] + t[ i] [ j 
Length [ i-1] ], + [ i-1] [ j]);

else

+[e1[j] = +[e-1][j];

* Coin chance famblem - Maximus in P.
* Coin change problem-Maximum no of ways
Coin[]: [ 2 3] > unlimited coins
sum: 5 unlimited coins
The coin of 0 10 10 0 1
If coin change problem deals with Finding
The total no of ways that an amount of
The coin change problem deals with finding the total no of ways that an amount of morey can be made using specific coins
any.
Ex- $for, coine[]=1,2,3$
$\frac{6um}{2} = 5$
+16n, 2+3 = 5 $+12+2 = 5$
f+f+3=5 S work
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
1+1+1+2 =5
miebible
occurences
It is some as "count of subset sum with given sum
P.no - 40
£[n+1][sum+1]
if (coin [1-1] <= j)
$if \left( coin \left[ l-1 \right] <= j \right)$ $f \left[ li \right] \left[ j \right] = f \left[ li \right] \left[ f - \left( oin \left[ l-1 \right] \right] + f \left[ l-1 \right] \left[ j \right] \right]$
else
£[2][j]= £[2-1][j];
202101 112 - 1111



Code-

for (int 
$$i=2$$
;  $i < n+1$ ;  $i++$ )

(for (int  $j=1$ ;  $j < sum+1$ ;  $j++$ )

if (coin  $[a-1] < = j$ )

 $f[a][j] = min(f[a][j-coin[a-1]]+1$ ,

else

 $f[a][j] = f[a-1][j]$