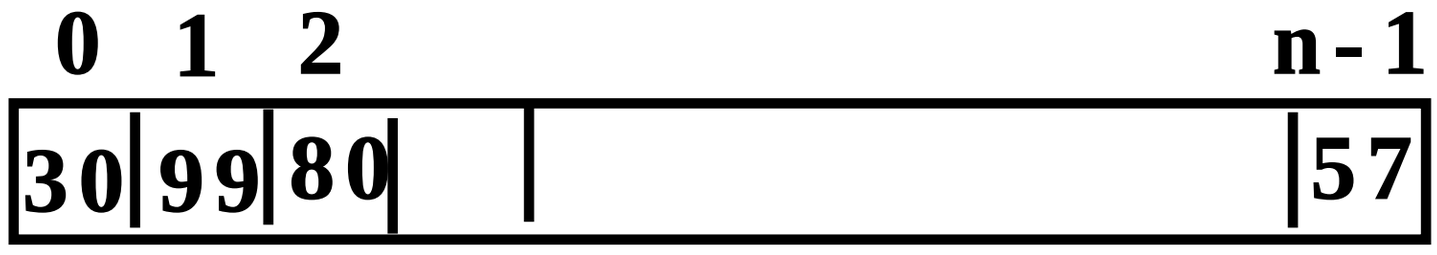
"I want maximum marks"



All marks are >=0

If you take i you cannot take i+1

#num			
0	{}	0	
1	{80}	80	{0}
2	{50,70}	70	{1}
2	{80,50}	80	{0}
3	{50,70,100}	150	{0,2}
3	{20,100,70}	100	{1}
3	{2, 80, 91}	93	{0,2}
4	{1,2,3,4}	6	{1,3}

0 1 2 3

```
Input: Python list a;  ex [1,2,3,4]
                  e:expected ans:6
def _test1(self,a:'list', e:'int')->'void':
        ans = []        ans = {1,3}
        maxv = [0]      maxv = [6]
        work = [0]      work =[25] HOW MUCH WORK?
        Alg(a,ans,maxv,work,True)
        assert(maxv[0] == e)
```

Question: What courses will you take so that you will get maximum marks

1.You return max marks
2.An array of list of course indices (must be between 0 to n-1)
If you take i you cannot take i+1
3. How much work you did
4. If (show==True) show each step

Time Complexity = ?
Space Complexity = ?