"University Exams"

```
0 1 2 n-1
30|99|80 |57
```

All marks are >=0

If you take i you cannot take i+1

MUST WRITE

- 1. Brute Force
- 2. Optimal alg

Must fill work

```
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 = $\{1,3\}$

 $maxv = [0] \quad maxv = [6]$

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 = ?
```