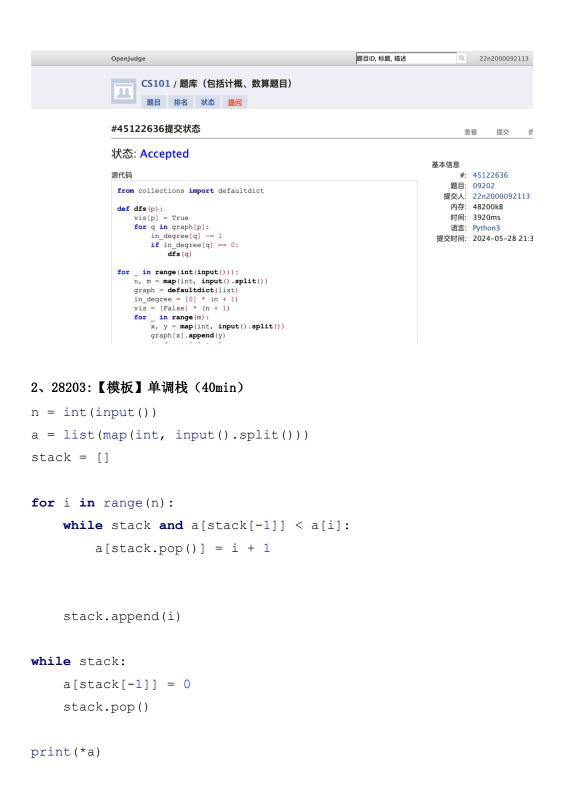# Assignment F

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院系：心理与认知科学学院

作业题目

1、09202:舰队、海域出击！（1h30min）

```python
from collections import defaultdict


def dfs(p):
    vis[p] = True
    for q in graph[p]:
        in_degree[q] -= 1
        if in_degree[q] == 0:
            dfs(q)


for _ in range(int(input())):
    n, m = map(int, input().split())
    graph = defaultdict(list)
    in_degree = [0] * (n + 1)
    vis = [False] * (n + 1)
    for _ in range(m):
        x, y = map(int, input().split())
        graph[x].append(y)
        in_degree[y] += 1
    for k in range(1, n + 1):
        if in_degree[k] == 0 and not vis[k]:
            dfs(k)
    flag = any(not vis[i] for i in range(1, n + 1))
    print('Yes' if flag else 'No')
```

CS101 / 题库（包括计概、数算题目）

题目　排名　状态　提问

#45122636提交状态

查看　提交　纫

状态: Accepted

源代码

```python
from collections import defaultdict

def dfs(p):
    vis[p] = True
    for q in graph[p]:
        in_degree[q] -= 1
        if in_degree[q] == 0:
            dfs(q)

for _ in range(int(input())):
    n, m = map(int, input().split())
    graph = defaultdict(list)
    in_degree = [0] * (n + 1)
    vis = [False] * (n + 1)
    for _ in range(m):
        x, y = map(int, input().split())
        graph[x].append(y)
```

基本信息

　　#: 45122636
　题目: 09202
　提交人: 22n2000092113
　内存: 48200kB
　时间: 3920ms
　语言: Python3
提交时间: 2024-05-28 21:3

2、28203:【模板】单调栈（40min）

```python
n = int(input())
a = list(map(int, input().split()))
stack = []

for i in range(n):
    while stack and a[stack[-1]] < a[i]:
        a[stack.pop()] = i + 1


    stack.append(i)

while stack:
    a[stack[-1]] = 0
    stack.pop()

print(*a)
```

OpenJudge

OpenJudge - 提交状态
cs101.openjudge.cn

描述

22n2000092113

CS101 / 题库（包括计概、数算题目）

题目　排名　状态　提问

#45122700提交状态　　　　　　　　　　查看　提交

状态: Accepted

源代码

基本信息

　　#:　45122700
题目：28203
提交人：22n2000092113
内存：376964kB
时间：2970ms
语言：Python3
提交时间：2024-05-28 21:

```python
n = int(input())
a = list(map(int, input().split()))
stack = []

for i in range(n):
    while stack and a[stack[-1]] < a[i]:
        a[stack.pop()] = i + 1

    stack.append(i)

while stack:
    a[stack[-1]] = 0
    stack.pop()

print(*a)
```

3、22485:升空的焰火，从侧面看（1h）

```python
def dfs(node,level):
    if ans[level]==0:
        ans[level]=node
    for next in tree[node][::-1]:
        if next!=-1:
            dfs(next,level+1)
n=int(input())
tree={}
ans=[0]*n
for i in range(n):
    tree[i+1]=list(map(int,input().split()))
dfs(1,0)
res=[]
for i in ans:
    if i: res.append(i)
    else: break
print(*res)
```

CS101 / 题库（包括计概、数算题目）

题目   排名   状态   提问

#45122724提交状态   查看   提交

状态: Accepted

源代码

```python
def dfs(node,level):
    if ans[level]==0:
        ans[level]=node
    for next in tree[node][::-1]:
        if next!=-1:
            dfs(next,level+1)
n=int(input())
tree={}
ans=[0]*n
for i in range(n):
    tree[i+1]=list(map(int,input().split()))
dfs(1,0)
res=[]
for i in ans:
    if i: res.append(i)
    else: break
print(*res)
```

基本信息
    #: 45122724
    题目: 22485
    提交人: 22n2000092113
    内存: 3756kB
    时间: 21ms
    语言: Python3
    提交时间: 2024-05-28 21:

4、04135:月度开销（3h）

```python
n, m = map(int, input().split())
expenditure = []
for _ in range(n):
    expenditure.append(int(input()))


def check(x):
    num, s = 1, 0
    for i in range(n):
        if s + expenditure[i] > x:
            s = expenditure[i]
            num += 1
        else:
            s += expenditure[i]

    return [False, True][num > m]


lo = max(expenditure)
hi = sum(expenditure) + 1
ans = 1
while lo < hi:
    mid = (lo + hi) // 2
    if check(mid):
```

```
            lo = mid + 1
    else:
        ans = mid
        hi = mid


print(ans)
```

学习感受与心得

感觉还没学会就要考试了，焦虑