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13주차 문제풀이  
Sangmyung ICPC Team

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- ① `make_team(curr_emp, cnt)` ----- 팀 만들기
- ② `get_team_capa(team)` ----- 팀 능력치 구하기
- ③ `get_min_gap()` ----- 팀 능력치 차이 구하기

## Step2 – 구현: get\_team\_capa(team)



```
def get_team_capa(team):  
    total_capa = 0  
  
    for i in range(n//2-1):  
        for j in range(i+1, n//2):  
            total_capa += capabilities[team[i]][team[j]] + capabilities[team[j]][team[i]]  
  
    return total_capa
```

같은 팀에 속한 모든 팀원들의 능력치 시너지(?) 구하기

## Step2 – 구현: make\_team(curr\_emp, cnt)

```
def make_team(curr_emp, cnt):
    if cnt == n/2:
        global min_gap
        global start
        global link

        for e in range(n):
            if selected[e] == True: # start 팀
                start.append(e)
            else: # link 팀
                link.append(e)

        start_capa = get_team_capa(start)
        link_capa = get_team_capa(link)

        min_gap = min(min_gap, abs(start_capa-link_capa))

    else:
        for i in range(curr_emp, n):
            if not selected[i]:
                selected[i] = True
                make_team(i+1, cnt+1)
                selected[i] = False

start = []
link = []
```

## Step2 – 구현: 입출력

```
min_gap = 10000
start, link = [], []

n = int(input())
selected = [False for _ in range(n)]
capabilities = [*map(int, stdin.readline().split()) for _ in range(n)]

make_team(0, 0)
print(min_gap)
```

Selected: start팀으로 선택된 사람들은 True  
Link팀으로 선택된 사람들은 False

# Thanks

