창업

# Index	16890
📅 CreatedAt	@September 28, 2022
👥 Person	🅰 Ally Hyeseong Kim
⚙ Status	Done
☰ Tags	Implementation Python
📅 UpdatedAt	@September 28, 2022

> 16890번: 창업
>
> BAE/<JOON>
> ONLINE JUDGE
>
> /‹› https://www.acmicpc.net/problem/16890

1. Greedy Algorithm

```python
import sys
import collections


def sol():
    apple = sorted(list(sys.stdin.readline().split()[0]))
    cube = sorted(list(sys.stdin.readline().split()[0]), reverse=True)

    n = len(apple)
    apple = collections.deque(apple[:n//2 + (1 if n % 2 else 0)])
    cube = collections.deque(cube[:n//2])
    print(apple, cube)

    answer = ["" for _ in range(n)]
    left = 0
    right = n - 1

    for i in range(n):
        if i % 2:
            if len(apple) == 0 or cube[0] > apple[0]:
                answer[left] = cube.popleft()
                left += 1
```

```
            else:
                answer[right] = cube.pop()
                right -= 1
        else:
            if len(cube) == 0 or apple[0] < cube[0]:
                answer[left] = apple.popleft()
                left += 1
            else:
                answer[right] = apple.pop()
                right -= 1

    print("".join(answer))


sol()
```

- `sys.stdin.readline()` : `"\n"`