## Motivation

N dragons are attacking the village. M knights come to help you with cost of money.

## Problem

- Each dragon has hp.
- Each knight can be hired with some cost of money.
- The cost of knight equals the largest hp of dragon he can defeat.
- Minimize the cost and defeat all the dragons.

## 输入

- First line: two integers n, m
- Next n lines: n integers indicate the hp of dragons
- Next m lines: m integers indicate the cost of knights

n <= m <=50000

## 输出

Minimal cost or output "you died!" if no solution.

total cost <= 2147483647

## 输入样例 1

```
3 5
100
300
200
15
150
300
1000
500
```

## 输出样例 1

```
950
```

## 提示

```
Be greedy
```