

# 12694 - 電機資結 2020 HW0 Steal the most Value

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## Description

- You are a thief sneaking into a house that contain N-items with a bag that can hold K-kilograms.
- Each item contains its own value( $V_i$ ) and weight( $W_i$ ).
- Since your bag is not strong enough to carry over the limit of K(the sum of weight  $W$  you carry must be less than  $K$ ).
- What is the highest value you can carry out from this house?

## Input

- The first line contains two integers N(the number of items in the house) and K(how much can the bag hold).
- Each of the following N lines contains two integers  $V_i$  and  $W_i$ , which describe the value and weight of  $i$ -th item, respectively

## Output

- Print the most value the thief can get.
- P.S. You don't need to print newline in the end!

## Sample Input

[Download \(data:text/plain;charset=utf-8,5%207%0D%0A3%204%0D%0A5%203%0D%0A6%203%0D%0A4%203%0D%0A5%204%0D%0A%0D%0A\)](data:text/plain;charset=utf-8,5%207%0D%0A3%204%0D%0A5%203%0D%0A6%203%0D%0A4%203%0D%0A5%204%0D%0A%0D%0A)

```
5 7
3 4
5 3
6 3
4 3
5 4
```

## Sample Output

[Download \(data:text/plain;charset=utf-8,11\)](data:text/plain;charset=utf-8,11)

```
11
```

## Tags

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