Crazy Curling Coach

By : Drew Saltarelli

Problem :

It's curling season and you are the coach! You want to win the national tournament this year, and you want a team composed of the best possible 4 players. But there is a catch, the *total* age of your 4 players must be less than 64 years. Since this is a national competition, you may have to choose the best 4 out of up to 5000 potential players! This calls for some *Dynamic Programming.*

Input :

The first line of input $0 < N < 5000$ will determine the N players. On each of the N lines there are two numbers $0 < I < 20$, the age of the N-th player and $0 < J < 100$, the skill level of the N-th player.

Output:

The maximum skill level achievable with 4 players.

Sample Input:

```
6
17  65
19  85
12  30
21  95
15  99
18  40
```

Sample Output:

```
279
```

Explanation of Sample Output:

Taking the 17 year old player, the 19 year old player, the 12 year old player and the 15 year old player gives a total age of 63. Adding their skill levels gives 65 + 85 + 30 + 99 = 279.