

7612 Thickest Burger

ACM ICPC is launching a thick burger. The thickness (or the height) of a piece of club steak is A ($1 \leq A \leq 100$). The thickness (or the height) of a piece of chicken steak is B ($1 \leq B \leq 100$).

The chef allows to add just three pieces of meat into the burger and he does not allow to add three pieces of same type of meat. As a customer and a foodie, you want to know the maximum total thickness of a burger which you can get from the chef. Here we ignore the thickness of breads, vegetables and other seasonings.

Input

The first line is the number of test cases. For each test case, a line contains two positive integers A and B .

Output

For each test case, output a line containing the maximum total thickness of a burger.

Hint

Consider the first test case, since $68+68+42$ is bigger than $68+42+42$ the answer should be $68+68+42 = 178$. Similarly since $1+35+35$ is bigger than $1+1+35$, the answer of the second test case should be $1+35+35 = 71$.

Sample Input

```
10
68 42
1 35
25 70
59 79
65 63
46 6
28 82
92 62
43 96
37 28
```

Sample Output

```
178
71
165
217
193
98
192
246
235
102
```