

```
//Answer to question#38744, Pogramming, C++
```

```
#include <iostream>
```

```
using namespace std;
```

```
bool checkPair(int a, int b)
```

```
{
```

```
    int res;
```

```
    while(1)
```

```
    {
```

```
        if (a >= b)
```

```
            return false;
```

```
        res = a*2 - b;
```

```
        if (res == 0)
```

```
            return true;
```

```
        else if (res < 0)
```

```
            return false;
```

```
        else
```

```
            a = res;
```

```
    }
```

```
}
```

```
int main()
```

```
{
```

```
    for (int i = 1; i <= 1000; i++)
```

```
    {
```

```
        for (int j = 1; j <= 1000; j++)
```

```
            if (checkPair(i, j))
```

```
                cout << i << ' ' << j << std::endl;
```

```
    }
```

```
    return 0;
```

