```cpp
#include <bits/stdc++.h>
using namespace std;

int main() {

    int n;
    cin >> n;

    if (n % 2 == 0 && n % 5 == 0) {
        cout << "fizzbuzz" << endl;
    } else if (n % 2 == 0) {
        cout << "fizz" << endl;
    } else if (n % 5 == 0) {
        cout << "buzz" << endl;
    } else {
        cout << "sad" << endl;
    }

}
```