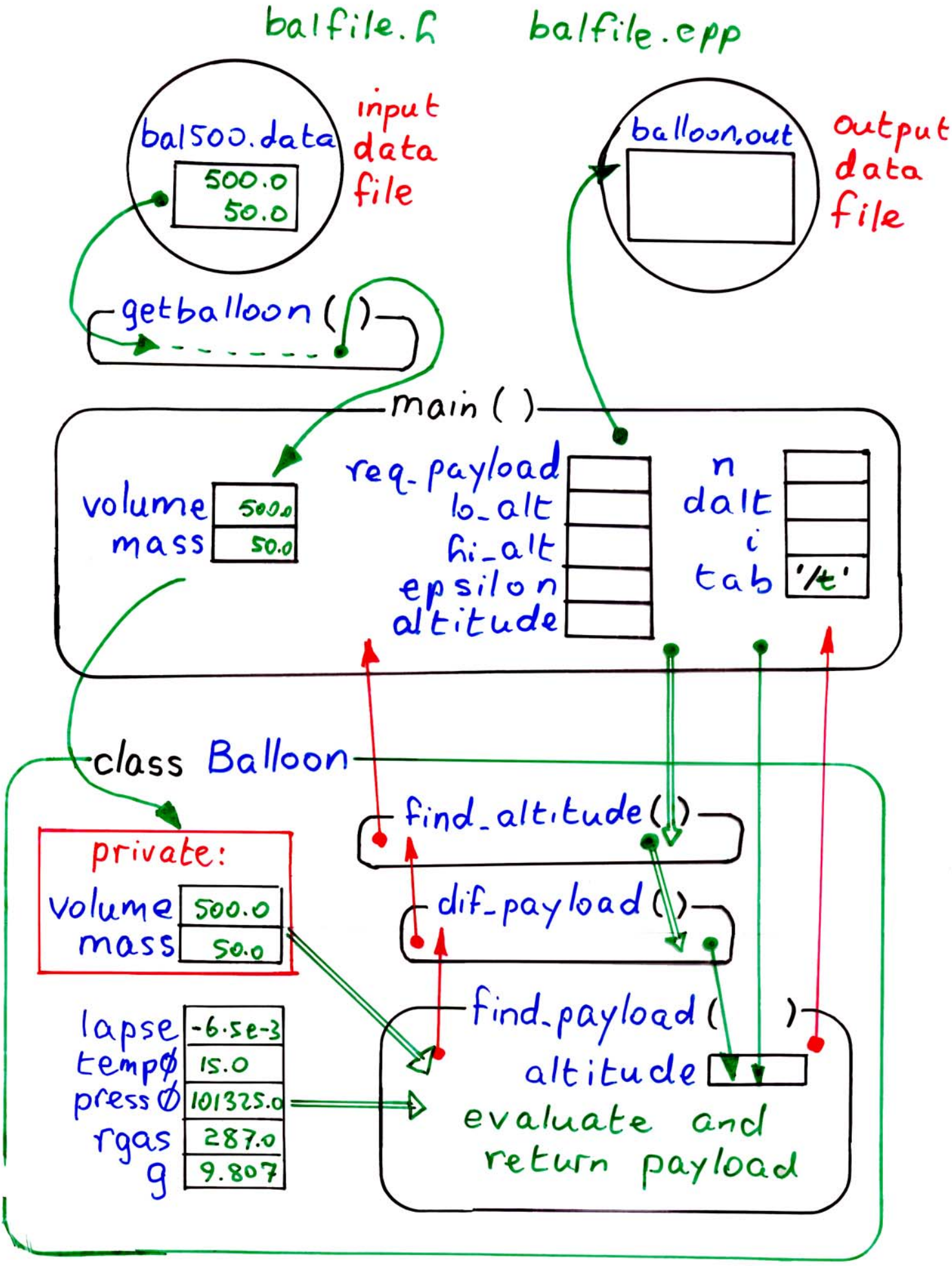
balfile.h
balfile.cpp
bal500.data
500.0
50.0
input data file
balloon.out
output data file
getballoon( )
main( )
volume
mass
500.0
50.0
req_payload
lo_alt
hi_alt
epsilon
altitude
n
dalt
i
tab
'\t'
class Balloon
find_altitude( )
private:
volume
mass
500.0
50.0
dif_payload( )
find_payload( )
altitude
lapse
temp0
press0
rgas
g
-6.5e-3
15.0
101325.0
287.0
9.807
evaluate and return payload

```
using namespace std;
#include <iostream>
#include <fstream>
#include <assert>
#include "balfile.h"
void getballoon(float& volume, float& mass);

int main(void)
{
    float volume, mass;
    getballoon(volume, mass);
    Balloon myballoon(volume, mass);
      |
    return 0;
}
```

```
void getballoon(float& volume, float &mass)
{
  cout << "get data from \" bal500.data \" file \n";
  ifstream balfile("bal500.data");
  assert(balfile);
  balfile >> volume >> mass;
  cout << "data read: "
       << volume << mass << endl;
  char ch;
  while(balfile.get(ch))
    cout << ch;
  balfile.close();
}
```