#include <iostream>

#include <stack>

#include <fstream>

#include <sstream>

using namespace std;

stack <char> tank;

char item = 'X';

int t =0;

int main () {

ifstream readfile("gas.txt");

if(readfile.is\_open()){

string line;

while(getline(readfile,line)){

cout<<line<<endl;

stringstream geek(line);

geek >> t;

}}

for(int count =1; count <=t; count++){

tank.push(item);

}

do {

cout << "Gas Tank Control System\n\n";

cout << "Menu\n";

cout << "1. Fill Tank\n";

cout << "2. Remove From Tank\n";

cout << "3. Show Tank\n";

cout << "4. Exit\n";

int choice;

cin >> choice;

if(choice >= 4)

{

/\* ofsteam file;

file.open("gas.txt");

file <<t;

file.close();\*/

break;

}

else if(choice == 1) {

if(tank.size()<3){

tank.push(item);

cout<<"gas has been added to tank"<<endl;

t++;

}

else{ cout<<"tank is full"<<endl;}

}

else if(choice == 2) {

if(tank.size()>0){

tank.pop();

cout<<"Tank is removed"<<endl;

t--;

}

else{cout<<"Tank is empty"<<endl;}

}

else if(choice == 3) {

cout<<"Tank"<<endl;

cout<<"-------------------"<<endl;

for(int i=3; i >=1; i--){

if(i>tank.size()){

cout<<" "<<endl;

}

else{

cout<<item<<endl;

}

}}

} while(true);

return 0;

}