1A Auto Solution

// Given a list, max number is 10, of auto prices and miles per gallon,
// determine which car will pay itself
// off in the shortest time. The average gas price is entered.
// The first input is the number of cars

#define MAX 10

int _tmain(int argc, _TCHAR* argv[])
{
    int i;
    double yearlymiles[MAX], newmpg[MAX], gasprice;
    double estsavings[MAX], cost[MAX], numYears[MAX];
    cout << "Enter average gas price per gallon: ";
    cin >> gasprice;

    int numCars;
    cout<<"Enter number of cars: ";
    cin>> numCars;
    for(i=0;i<numCars;i++){
        cout << "Enter cost of car: ";
        cin >> cost[i];
        cout << "Enter estimated yearly mileage: ";
        cin >> yearlymiles[i];
        cout << "Enter estimated mileage of new car: ";
        cin >> newmpg[i];
        estsavings[i] = yearlymiles[i]*gasprice/15.0 -
                      yearlymiles[i]*gasprice/newmpg[i];
        numYears[i] = cost[i]/estsavings[i];
    }
    int num; num=0; double numYr; numYr = 100;
    for(i=0;i<numCars;i++){
        if(numYears[i] < numYr) {numYr = numYears[i];num=i+1;}
    }
    cout<<"Best car value is car "<<num<<" with "<<numYr<< " years";
    return 0;
}