You are given program ProfitsMain.cpp, as well as Company.h and ProfitCalculator.h, that read info about **companies** – **name**, **id**, **revenue** and **costs**, followed by info about profit calculations per company – **company id** followed by a **tax percentage** – and generates a report with the profit for each company in the input.

The report must contain exactly as many lines as there are companies, and each line should contain name of company on that line in input, followed by ' = ' and int representing profits of company, e.g. a line of the output for a company called TheCompany with a profit of 42000 should look like this:

TheCompany = 42000

To generate report, ProfitsMain.cpp uses function getProfitReportfrom ProfitReport.h. The function receives 3 parameters:

* pointer to first company in array of companies
* pointer to last company (inclusive) in array of companies
* std::map, which maps company ids to ProfitCalculators

getProfitReport should use appropriate ProfitCalculator from map (i.e. ProfitCalculator in entry with a key matching id of company) to calculate each company’s profit.

getProfitReport returns a string, containing report for provided companies, calculated through provided ProfitCalculators, as described above.

Your task is to study ProfitsMain.cpp, then create **ProfitReport**.h containing **getProfitReport** function

submit a.zip file containing the **ProfitReport**.h.

To correctly use Company definition, and ProfitCalculator definition, without interfering with their usage by ProfitsMain.cpp, use following structure for **OrderedInserter**.h:

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| **ProfitReport.h** |
| #ifndef PROFIT\_REPORT\_H  #define PROFIT\_REPORT\_H  #include "Company.h"  #include "ProfitCalculator.h"  // Place your code here, as well as any other #include directives you might need  #endif // !PROFIT\_REPORT\_H |

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| acme 424242420 : 43000 1000  softuni\_foundation 20140414 : 0 0  itjoro 878968302 : 100 25  end  878968302 0  424242420 10  20140414 30  end | acme = 37800  softuni\_foundation = 0  itjoro = 75 |