

AP Computer Science



Mr Hanley



Assignment 15 Initech Batch Processing Payroll Files

Given the following employee file;

Jackson | Amanda | T | 680400986 | Female | BaggageHandlerManager | 12/31/99 | 1
411 12th street | Austin | TX | 24659 | 38000 | 881163719 | 972605335
Hebron | Vaughn | X | 881163719 | Male | BaggageHandler | 1/16/2009 | 32 Lack
Lane | Smithville | TX | 10010 | 8.90
Garcia | Aristo | S | 972605335 | Male | BaggageHandler | 3/10/2011 | 40 Carlton
Rd | Clifton Park | NY | 12065 | 9.57
Hyde | Gayle | S | 431704553 | Female | GateAgentManager | 12/10/2008 | 19 Joseph
St. | Saratoga Springs | NY | 12866 | 37800 | 100005555
Ptolemy | Aristotle | M | 706969252 | Male | Mechanic | 1/1/2009 | 6 Apple
Lane | Trenton | NJ | 25897 | 39600
Lambert | Yuki | L | 208112739 | Male | Pilot | 6/1/2000 | 7 Triangle
Lane | Moose | KY | 11002 | 72000
Reid | Quaashie | G | 100010001 | Female | Programmer | 2/13/2002 | 4 Leaf
Lane | Morristown | NJ | 12356 | 68600
Gomez | Damian | S | 673106610 | Male | ReservationAgent | 5/31/1991 | 200
Warrior Rd | Drexel Hill | PA | 19026 | 6.50
Gomez | Orquidea | G | 661774938 | Female | ReservationAgent | 10 Storer
St | Auburn | MA | 15151 | 5.75
Yoshimitsu | Lambert | F | 100005555 | Male | GateAgent | 4 Kacker Ln | Hermosa
Beach | CA | 90254 | 31000

Payout Amounts are as follows;

1. Managers get \$50 weekly for each employee they supervise;
2. Reservation agents get an hourly amount + \$2 additional money for each reservation they book
3. Hourly employees earn time and a half for each hour over 40
4. Bad data in the form of words instead of hours worked or reservations booked are fair game and must be handled
5. NOTE: I want you to TRUNCATE each calculation, I don't want any pennies from any of the individual calculations, see explanation of OUTPUT file below!!!!

Given the following data file to be read (Payroll_10_Employee_Ex1.payroll) on my website;

BaggageHandlerManager

680400986

40

&&&&

BaggageHandler

881163719

40

&&&&

BaggageHandler

972605335

50

&&&&

Pilot

208112739

40

&&&&

Programmer

100010001

48.5

&&&&

ReservationAgent

673106610

40

112

&&&&

GateAgent

100005555

48

You should produce the following file Payroll_10_Employee_Ex1_OUTPUT.txt

680400986

830

@@@@

881163719

356

@@@@

972605335

525

@@@@

208112739

1384

@@@@

100010001

1319

@@@@

673106610

484

@@@@

100005555

596

Explanations:

680400986

830

Amanda Jackson is a Baggage Handler Manager.

She is a salaried employee.

Take her annual salary and divide by 52 for a weekly amount

$38000/52 = 730.76923076923076923076923076923$

Truncate the decimal so this is 730

She supervises 2 people so she earns an additional \$50 per person

This makes $730 + 50 + 50 = 830$

881163719

356

Vaughn Hebron is a baggage handler. He earns 8.90 an hour

He worked 40 hours.

$$40 * 8.90 = 356$$

972605335

525

Aristo Garcia is a baggage handler. He earns 9.57 an hour.

He worked 50 hours. This is 10 hours OVERTIME, paid at time and a half!

$$40 * 9.57 = 382.8, \text{ truncate the decimal so this is } 382$$

$$10 \text{ hours overtime} = 10 * 9.57 * 1.5 = 143.55, \text{ so this is } 143$$

$$382 + 143 = 525$$

208112739

1384

Yuki Lambert is a pilot. He worked 40 hours. He earns 72000 annually.

$$72000 / 52 = 1384.6153846153846153846153846154, \text{ so this is } 1384$$

100010001

1319

Quaashie Reid is a programmer. Its no wonder, her SS# is in binary.

She earns 68600 a year.

She worked 48.5 hours but since she is salaried, will get no overtime pay. (My friend Jerry Robinson who recently retired from Microsoft said they expect 50-60 hours typically each week)

$$68600 / 52 = 1319.2307692307692307692307692308, \text{ truncate decimal so } 1319$$

673106610

484

Damian Gomez is a reservation agent. He earns \$6.50 but also earns \$2 for each reservation booked. He booked 112 reservations. He worked 40 hours.

$$40 * 6.50 + 112 * 2 = 260 + 224 = 484$$

*****UPDATE!!!! CORRECTION!!*****

100005555

390

Lambert Yoshimitsu is a gate agent. He earns 31,000 annually.

He worked 48 hours, which is 8 hours over but since he is salaried, he takes this one "for the team" and earns only his salary / 52.

$$31,000 / 52 = 596.15384615384615384615384615385, \text{ truncate decimal so } 596$$

Project Name	Existing Initech Project
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Rubric	
Create successful output file	100

Recursion*Linear Search*Binary Search*Grid World Case Study*File Processing *nlogn*Hangman