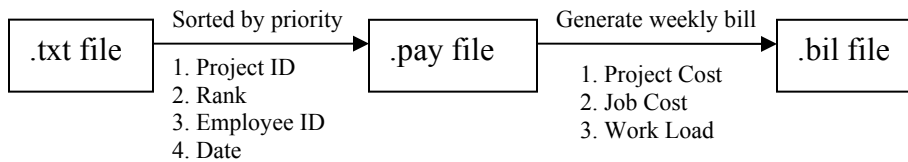


This project is to create a Weekly Bill Report using C language. In this project, we generate a .pay file and a .bil file which consist of sorted billing information based on the input database, a .txt file.



A sample run of my solution is shown below:

### 1.NewYork-2-99.txt

```
2 NYHBT 020899 NY12345 1030 SENIOR_PARTNER
2 NYHBT 020999 NY12345 0730 SENIOR_PARTNER
2 NYHBT 020999 NY23456 0300 SENIOR_PARTNER
2 NYHBT 021099 NY12345 0400 SENIOR_PARTNER
2 NYHBT 021099 NY23456 0500 SENIOR_PARTNER
2 NYHBT 021099 NY34567 0200 SENIOR_PARTNER
2 NYHBT 021199 NY12345 0230 SENIOR_PARTNER
2 NYHBT 021199 NY23456 0300 SENIOR_PARTNER
2 NYHBT 021199 NY34567 0130 SENIOR_PARTNER
2 NYHBT 021199 NY45678 0100 SENIOR_PARTNER
2 NYHBT 021199 NY56789 0330 SENIOR_PARTNER
2 NYCAT 020899 NY12345 0830 AUDITOR
2 NYCAT 021099 NY12345 0200 AUDITOR
2 NYCAT 021099 NY23456 0500 AUDITOR
2 NYCAT 021099 NY34567 0200 AUDITOR
2 NYCAT 021199 NY12345 0430 AUDITOR
2 NYCAT 021199 NY23456 0330 AUDITOR
2 NYCAT 021199 NY34567 0130 AUDITOR
2 NYCAT 021299 NY12345 0830 AUDITOR
2 BECZM 020999 NY12345 0530 SENIOR_ASSOCIATE
2 BECZM 020999 NY23456 0230 SENIOR_ASSOCIATE
2 BECZM 021099 NY12345 0200 SENIOR_ASSOCIATE
2 BECZM 021099 NY23456 0400 SENIOR_ASSOCIATE
2 BECZM 021099 NY34567 0200 SENIOR_ASSOCIATE
2 BECZM 021199 NY12345 0030 SENIOR_ASSOCIATE
2 BECZM 021199 NY23456 0230 SENIOR_ASSOCIATE
2 BECZM 021199 NY34567 0130 SENIOR_ASSOCIATE
2 BECZM 021199 NY45678 0100 SENIOR_ASSOCIATE
2 BECZM 021199 NY56789 0330 SENIOR_ASSOCIATE
2 BOAZM 020899 NY12345 0830 DIRECTOR
2 BOAZM 020999 NY12345 0530 DIRECTOR
2 BOAZM 020999 NY23456 0230 DIRECTOR
2 BOAZM 021099 NY12345 0200 DIRECTOR
2 BOAZM 021099 NY23456 0400 DIRECTOR
2 BOAZM 021099 NY34567 0200 DIRECTOR
2 BOAZM 021199 NY12345 0030 DIRECTOR
2 BOAZM 021199 NY23456 0230 DIRECTOR
2 BOAZM 021199 NY34567 0130 DIRECTOR
2 BOAZM 021199 NY45678 0100 DIRECTOR
2 BOAZM 021199 NY56789 0330 DIRECTOR
2 BOAZM 021299 NY56789 0630 DIRECTOR
2 BOAZM 021299 NY45678 0330 DIRECTOR
2 BOSZK 020899 NY12345 0830 PARTNER
2 BOSZK 020999 NY12345 0530 PARTNER
2 BOSZK 020999 NY23456 0230 PARTNER
2 BOSZK 021099 NY12345 0200 PARTNER
2 BOSZK 021099 NY23456 0400 PARTNER
2 BOSZK 021099 NY34567 0200 PARTNER
2 BOSZK 021199 NY12345 0430 PARTNER
2 BOSZK 021199 NY23456 0230 PARTNER
2 BOSZK 021199 NY34567 0130 PARTNER
```

## 2. NewYork-2-99.pay

Type	Employee	Date	Project	Hours	Rank
2	NYHBT	020899	NY12345	1030	SENIOR_PARTNER
2	NYHBT	020999	NY12345	0730	SENIOR_PARTNER
2	NYHBT	021099	NY12345	0400	SENIOR_PARTNER
2	NYHBT	021199	NY12345	0230	SENIOR_PARTNER
2	BOSZK	020899	NY12345	0830	PARTNER
2	BOSZK	020999	NY12345	0530	PARTNER
2	BOSZK	021099	NY12345	0200	PARTNER
2	BOSZK	021199	NY12345	0430	PARTNER
2	BOAZM	020899	NY12345	0830	DIRECTOR
2	BOAZM	020999	NY12345	0530	DIRECTOR
2	BOAZM	021099	NY12345	0200	DIRECTOR
2	BOAZM	021199	NY12345	0030	DIRECTOR
2	BECZM	020999	NY12345	0530	SENIOR_ASSOCIATE
2	BECZM	021099	NY12345	0200	SENIOR_ASSOCIATE
2	BECZM	021199	NY12345	0030	SENIOR_ASSOCIATE
2	NYCAT	020899	NY12345	0830	AUDITOR
2	NYCAT	021099	NY12345	0200	AUDITOR
2	NYCAT	021199	NY12345	0430	AUDITOR
2	NYCAT	021299	NY12345	0830	AUDITOR
2	NYHBT	020999	NY23456	0300	SENIOR_PARTNER
2	NYHBT	021099	NY23456	0500	SENIOR_PARTNER
2	NYHBT	021199	NY23456	0300	SENIOR_PARTNER
2	BOSZK	020999	NY23456	0230	PARTNER
2	BOSZK	021099	NY23456	0400	PARTNER
2	BOSZK	021199	NY23456	0230	PARTNER
2	BOAZM	020999	NY23456	0230	DIRECTOR
2	BOAZM	021099	NY23456	0400	DIRECTOR
2	BOAZM	021199	NY23456	0230	DIRECTOR
2	BECZM	020999	NY23456	0230	SENIOR_ASSOCIATE
2	BECZM	021099	NY23456	0400	SENIOR_ASSOCIATE
2	BECZM	021199	NY23456	0230	SENIOR_ASSOCIATE
2	NYCAT	021099	NY23456	0500	AUDITOR
2	NYCAT	021199	NY23456	0330	AUDITOR
2	NYHBT	021099	NY34567	0200	SENIOR_PARTNER
2	NYHBT	021199	NY34567	0130	SENIOR_PARTNER
2	BOSZK	021099	NY34567	0200	PARTNER
2	BOSZK	021199	NY34567	0130	PARTNER
2	BOAZM	021099	NY34567	0200	DIRECTOR
2	BOAZM	021199	NY34567	0130	DIRECTOR
2	BECZM	021099	NY34567	0200	SENIOR_ASSOCIATE
2	BECZM	021199	NY34567	0130	SENIOR_ASSOCIATE
2	NYCAT	021099	NY34567	0200	AUDITOR
2	NYCAT	021199	NY34567	0130	AUDITOR
2	NYHBT	021199	NY45678	0100	SENIOR_PARTNER
2	BOAZM	021199	NY45678	0100	DIRECTOR
2	BOAZM	021299	NY45678	0330	DIRECTOR
2	BECZM	021199	NY45678	0100	SENIOR_ASSOCIATE
2	NYHBT	021199	NY56789	0330	SENIOR_PARTNER
2	BOAZM	021199	NY56789	0330	DIRECTOR
2	BOAZM	021299	NY56789	0630	DIRECTOR
2	BECZM	021199	NY56789	0330	SENIOR_ASSOCIATE

## 3. NewYork-2-99.bil

NEWYORK

Bill For Project: NY12345  
Week: February 8, 1999

Rank: Senior Partner

Employee: HBT Region: NY Hours: 24.50

Hours: 24.50 Rate Per Hour: 212.00 Amount: 5194.00

Rank: Partner

Employee: SZK Region: BO Hours: 20.50

Hours: 20.50 Rate Per Hour: 185.00 Amount: 3792.50

Rank: Director

Employee: AZM Region: BO Hours: 16.50

Hours: 16.50 Rate Per Hour: 163.00 Amount: 2689.50

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Rank: Senior Associate

Employee: CZM Region: BE Hours: 8.00

Hours: 8.00 Rate Per Hour: 137.00 Amount: 1096.00

---

Rank: Auditor

Employee: CAT Region: NY Hours: 23.50

Hours: 23.50 Rate Per Hour: 58.00 Amount: 1363.00

---

Total Project NY12345 14135.00

Bill For Project: NY23456  
Week: February 8, 1999

Rank: Senior Partner

Employee: HBT Region: NY Hours: 11.00

Hours: 11.00 Rate Per Hour: 212.00 Amount: 2332.00

---

Rank: Partner

Employee: SZK Region: BO Hours: 9.00

Hours: 9.00 Rate Per Hour: 185.00 Amount: 1665.00

---

Rank: Director

Employee: AZM Region: BO Hours: 9.00

Hours: 9.00 Rate Per Hour: 163.00 Amount: 1467.00

---

Rank: Senior Associate

Employee: CZM Region: BE Hours: 9.00

Hours: 9.00 Rate Per Hour: 137.00 Amount: 1233.00

---

Rank: Auditor

Employee: CAT Region: NY Hours: 8.50

Hours: 8.50 Rate Per Hour: 58.00 Amount: 493.00

---

Total Project NY23456 7190.00

Bill For Project: NY34567  
Week: February 8, 1999

Rank: Senior Partner

Employee: HBT Region: NY Hours: 3.50

Hours: 3.50 Rate Per Hour: 212.00 Amount: 742.00

---

Rank: Partner

Employee: SZK Region: BO Hours: 3.50

Hours: 3.50 Rate Per Hour: 185.00 Amount: 647.50

Rank: Director

Employee: AZM Region: BO Hours: 3.50

Hours: 3.50 Rate Per Hour: 163.00 Amount: 570.50

Rank: Senior Associate

Employee: CZM Region: BE Hours: 3.50

Hours: 3.50 Rate Per Hour: 137.00 Amount: 479.50

Rank: Auditor

Employee: CAT Region: NY Hours: 3.50

Hours: 3.50 Rate Per Hour: 58.00 Amount: 203.00

Total Project NY34567 2642.50

Bill For Project: NY45678  
Week: February 8, 1999

Rank: Senior Partner

Employee: HBT Region: NY Hours: 1.00

Hours: 1.00 Rate Per Hour: 212.00 Amount: 212.00

Rank: Director

Employee: AZM Region: BO Hours: 4.50

Hours: 4.50 Rate Per Hour: 163.00 Amount: 733.50

Rank: Senior Associate

Employee: CZM Region: BE Hours: 1.00

Hours: 1.00 Rate Per Hour: 137.00 Amount: 137.00

Total Project NY45678 1082.50

Bill For Project: NY56789  
Week: February 8, 1999

Rank: Senior Partner

Employee: HBT Region: NY Hours: 3.50

Hours: 3.50 Rate Per Hour: 212.00 Amount: 742.00

Rank: Director

Employee: AZM Region: BO Hours: 10.00

Hours: 10.00 Rate Per Hour: 163.00 Amount: 1630.00

Rank: Senior Associate

Employee: CZM Region: BE Hours: 3.50

Hours: 3.50 Rate Per Hour: 137.00 Amount: 479.50

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Total Project NY56789 2851.50

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Total Week February 8, 1999 27901.50