

JC1 Assignment – Algorithm design with Binary search

1. An employee file contains records that show an employee's number, name, job code and pay code. The job codes are three-character codes and pay codes are two-digit codes that refer to corresponding job descriptions and pay rate, as in the following tables:

Job code	Job description	Pay code	Pay rate
A80	Clerk	01	\$9.00
A90	Word processor	02	\$9.50
B30	Accountant	03	\$12.00
B50	Programmer	04	\$20.00
B70	System analyst	05	\$23.50
C20	Engineer	06	\$27.00
C40	Senior engineer	07	\$33.00
D50	Manager		

Your program is to read the employee file, use the job code to retrieve (Binary search) the job description from the job table, use the pay code to retrieve (Binary search) the pay rate from the pay rate table, and print for each record the employee's number, name, job description and pay rate. At the end of the report, print the total number of employees.

EMPLOYEE.DAT

EMP_No	EMP_Name	EMP_Job_code	EMP_Pay_code
0089	BAZILAH BTE BADERI	A80	01
0067	CHONG YU'EN TRICIA	A80	02
0145	CHUA MIN YI	B70	05
0267	ETHEL CHOY HUI ZHEN	B50	03
0087	FELICIA LIM JUNRONG	B50	04
0007	LAI SHI MIN ELAINE	C40	06
0010	LIEW TZE CHI VALERIE	D50	07
0300	LOW HUI PING LISSA	A80	01
0299	LUI YUN CHING CHLOE CLAIRE	A80	02
0055	MADINAH BEGUM BTE RAHMANSHA	B50	04
0009	NADIAH BTE MOHAMED RAFFI	C20	05
0129	NG ZI TING JASMINE	B30	03
0446	Nur Illiyana Bte Mohammad	A90	02
0447	NUR SYAHIRAH BTE JASNI	A90	01
0311	NUSHRATH FARVEEN D/O ABDUL J	A80	01