

# CPSC3111 (PGM5QQ) BREAKS

Make a copy of a previous program (TOTALS) and name it: BREAKS. Update the PROGRAM-ID, comments, and HEADING1. The PAYROLL file is now sorted in ascending sequence on Division, Department, (Cost Center) and Employee-No. Use this sorted file as input to create a report with Department and Division subtotals. Print: Cost Center, Last Name, Employee Number, Hours Worked, Regular Pay, Overtime Pay, Deductions, and Net Pay for each employee. Do not include records with invalid data in **any** totals! (Same as TOTALS!)

Each time the department number changes print a department subtotal, which will be the total of the employees in that department. Add the Department totals to the Division totals. Each time the Division number changes print a Division subtotal, which will be the total of all the Departments in that Division. Add the Division totals to the Final Totals. At the end of the report, print a Final Total, which will be the total of all the Divisions in the report. This method is called "ROLLING TOTALS". NOTE: The employee amounts to be totaled are added only to the Department Totals during the detail processing. Each total level adds only to the next higher level!

The detail lines are **single** spaced with a blank line **after** each total! (There is always a blank line after the last header line!)

The Department totals have a single asterisk '\*', the Division totals have two asterisks '\*\*', and the Final total has three asterisks '\*\*\*' at the end of the print line. Do not define separate lines for each total level!

The report will NOT appear to be spaced as you would hope, so be sure and verify the printer control codes on each print line. (F10 to scroll to the left!)

You will need to define THREE sets of totals. Department, Division, and Final. You will also need two 'HOLD' areas to store the current value of each of the CONTROL FIELDS. See the 'Control Break' notes for details!

# Sample report output

1	10/03/18	15:52	PROGRAM 5, (QQ) STUDENT NAME HERE					PAGE: 1
0	CCTR	LAST	EMP#	HRS	REG PAY	OT PAY	DEDS	NET PAY
0	10	005	SUNG	41213	38.2	750.00	0.00	123.45 626.55
			DEPARTMENT TOTAL		38.2	750.00	0.00	123.45 626.55 *
0			DIVISION TOTAL		38.2	750.00	0.00	123.45 626.55 **
0	15	021	CABOOSE	25112	30.5	198.25	0.00	53.84 144.41
			15 021 ALLEN	42831	41.3	340.00	16.58	114.29 242.29
			DEPARTMENT TOTAL		71.8	538.25	16.58	168.13 386.70 *
0	15	051	SAW	21310	30.0	650.00	0.00	219.73 430.27
			15 051 DANIELS	42194	10.2	153.00	0.00	180.00 27.00CR
			15 051 WISER	48231	<b>25.3</b>	** Invalid Pay Type - Record Ignored **		
			DEPARTMENT TOTAL		40.2	803.00	0.00	399.73 403.27 *
0			DIVISION TOTAL		112.0	1,341.25	16.58	567.86 789.97 **
0	20	001	MALLOW	21260	39.0	390.00	0.00	50.00 340.00
			DEPARTMENT TOTAL		39.0	390.00	0.00	50.00 340.00 *
0			DIVISION TOTAL		39.0	390.00	0.00	50.00 340.00 **
0	30	052	WHIZ	33377	35.7	600.00	0.00	219.42 380.58
			30 052 GATES	45394	1.0	650.56	0.00	184.79 465.77
			DEPARTMENT TOTAL		36.7	1,250.56	0.00	404.21 846.35 *
0			DIVISION TOTAL		36.7	1,250.56	0.00	404.21 846.35 **
0	50	011	SIPPI	21257	37.8	587.44	0.00	109.89 477.55
			50 011 AHH	21574	<b>42.0</b>	** Invalid Pay Type - Record Ignored **		
			DEPARTMENT TOTAL		37.8	587.44	0.00	100.00 477.55 *
0			DIVISION TOTAL		37.8	587.44	0.00	100.00 477.55 **
0	...							

\*\*\* Another heading and the last subtotal lines and final total \*\*\*

0	FINAL TOTALS				587.8	8,239.07	260.93	2,500.00	6,000.00	***
---	--------------	--	--	--	-------	----------	--------	----------	----------	-----

---

NOTE: A zero as the printer control character means that there is a blank line BEFORE the printed line!

NOTE: The HOURS-WORKED in **BOLD** are NOT included in ANY totals!! (Error records!)