Homework 9: Build-It
Due April 30, 11:00 PM

Sample Input/Output Sequences

Command	Status of File/Printed Result
`setup -N mygradebook`	
`gradebookadd -N mygradebook -K 45ea448f -AS -FN John -LN Smith`	John Smith
`gradebookadd -N mygradebook -K 45ea448f -AS -FN Russell -LN Tyler`	John Smith Russell Tyler
`gradebookadd -N mygradebook -K 45ea448f -AS -FN Ted -LN Mason`	John Smith Russell Tyler Ted Mason

Command		Midterm (100, 0.25)
`gradebookadd -N mygradebook -K 45ea448f -AA -AN Midterm -P 100 -W 0.25`	John Smith	
	Russell Tyler	
	Ted Mason	

Command		Midterm (100, 0.25)
`gradebookadd -N mygradebook -K 45ea448f -AG -AN Midterm -FN John -LN Smith -G 95`	John Smith	95
	Russell Tyler	
	Ted Mason	

		Midterm (100, 0.25)
`...`	John Smith	95
	Russell Tyler	80
	Ted Mason	90

Command	Status of File/Printed Result			

`gradebookadd -N mygradebook -K`
`45ea448f -AA -AN Final -P 200 -W`
`0.5`
`gradebookadd -N mygradebook -K`
`45ea448f -AG -AN Final -FN John`
`-LN Smith -G 180`
`...`
`gradebookadd -N mygradebook -K`
`45ea448f -AA -AN Project -P 50 -W`
`0.25`
`gradebookadd -N mygradebook -K`
`45ea448f -AG -AN Project -FN John`
`-LN Smith -G 48`
`...`
		Midterm
		(100, 0.25)
			Final
			(200, 0.5)
				Project
				(50, 0.25)

	John Smith	95	180	48
	Russell Tyler	80	190	49
	Ted Mason	90	150	50

Command	Status of File/Printed Result

`gradebookdisplay -N mygradebook -K`
`45ea448f -PA -A -AN Midterm`
	`(Mason, Ted, 90)`
	`(Smith, John, 95)`
	`(Tyler, Russel, 80)`

`gradebookdisplay -N mygradebook -K`
`45ea448f -PA -G -AN Final`
	`(Tyler, Russel, 190)`
	`(Smith, John, 180)`
	`(Mason, Ted, 150)`

`gradebookdisplay -N mygradebook -K`
`45ea448f -PS -FN John -LN Smith`
	`(Midterm, 95)`
	`(Final, 180)`
	`(Project, 48)`

`gradebookdisplay -N mygradebook -K`
`45ea448f -PF -G`
	» Let's compute for each student:
	The total weight = 0.25 + 0.5 + 0.25 = 1.00
	John Smith: (95/100)*0.25 + (180/200)*0.5 + (48/50)*0.25 = 0.9275
	Russell Tyler: (80/100)*0.25 + (190/200)*0.5 + (49/50)*0.25 = 0.92
	Ted Mason: 0.895
	» The output then is
	`(Smith, John, 0.9275)`
	`(Tyler, Russel, 0.92)`
	`(Mason, Ted, 0.85)`

Command	Status of File/Printed Result
`gradebookadd -N mygradebook -K` `45ea448f -DA -AN Project`	<table><tr><td></td><td>Midterm (100, 0.25)</td><td>Final (200, 0.5)</td></tr><tr><td>John Smith</td><td>95</td><td>180</td></tr><tr><td>Russell Tyler</td><td>80</td><td>190</td></tr><tr><td>Ted Mason</td><td>90</td><td>150</td></tr></table>

`gradebookdisplay -N mygradebook -K`
`45ea448f -PF -A`
	» Let's compute for each student:
	The total weight = 0.25 + 0.5 = 0.75
	John Smith: (95/100)*0.25+ (180/200)*0.5 = 0.6875
	Russell Tyler: (80/100)*0.25 + (190/200)*0.5 = 0.675
	Ted Mason: 0.6
	» The output then is
	`(Mason, Ted, 0.6)`
	`(Smith, John, 0.6875)`
	`(Tyler, Russel, 0.675)`