Developer's log for Software Construction

Chris Johnson, derived from PSP personal software process Watts Humphreys v1.2013

Programmer   28/04/13

      Jimmy Lin

Task Description

Following on from hw06 (Sort and count words), create a Java program Commonest.java that reports the N most common words in an input text (default value for N=5).

Estimates & actuals	estimate	final actual
classes	2	3
methods	10	15
lines/NCNB	200/100	242/107
time (hours)	8	7.33

Working session	date	start	end	interrupts (min)	work time (min)	achieved
1	24/04/13	2:30	3:30	0	60	Read specification, Construct basic buidling blocks such as makefile script, and look up some Java packages
2	24/04/13	4:00	8:30	20	250	Work out runnable version, and very possibly correct. Perform well in testing data.
3	28/04/13	1:30	2:50	10	70	Correct a misunderstanding towards the specification. Read data from the console or the redirected file
4	29/04/13	2:00	3:00	0	60	Final check, define one more interface for generic type.
total work time					440	

Defects	type of defect	location	time to fix (min)	cause
generic inheritance	Java mechanism	1	5	To specify the interface implementation of generic types, we must use keyword extend rather thatn implements.

Form of interaction with program	miscomprehension	2	10	uncareful of reading specification…
number of defects	2			

Reflective comments observations, problems in skills and practices, plans to improve

Use hashtable (dictionary) and arraylist (to index the keys) will have a good time performance in collecting the statistical information of each word by parsing the input file. Next time, be careful to the required way for input data in the specification. For all generic type, we should define one or more interface to provide its methods()..