Assessment Brief for Programming in C –

Turtle Parser/Interpreter

| Assessment information | |
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| Unit name | Programming in C |
| Unit code | COMSM1201 |
| Assessment number | 6 |
| Assessment name | Project (Parser/Interpreter) |
| Assessment prepared by | Neill Campbell |
| Assessment type | Coursework / Take-home Exam |
| Credit value | 35% of 30cp unit – as a proportion of this: |
| | 35%: Parsing 25%: Interpreter 5%: Postscript 15%: Extension 20%: Testing |
| Expected time to complete | 2 weeks, working ~50% of your time, approximately. |
| Submission format | Via Blackboard – one turtle.zip file. You can submit as often as you like, old files are automatically overwritten. I'll only mark your latest submission. Any submissions that are late (even by 1 second) are automatically given a late penalty; my feedback will not show this. |
| Deadline | 22 nd January 2024 @ 13:00 |
| Deliverable | One .zip file containing at least: 1) Makefile and source code allowing me to 'make parse', |
| Learning outcomes being assessed | To be able to write a program, given a brief specification that compiles and executes correctly. To code a recursive decent parser and understand how to adapt it to make an interpreter. The ability to program in the C99 (ANSI) C standard, and in the style outlined in the house-style guidelines. To be able to build a program from a suite of small, well tested functions. To be able to design, build & debug simple programs on your own without TA/staff support (after the labs in week 12, you need to work independently) |
| Assessment criteria | Conformance to the house-style guidelines, testing, short readable functions. Does it execute the formal grammar correctly? |
| Additional resources | "Live" Q&A sessions, Teams forum |
| Support for this assignment | 4 hours of labs in week 12. |
| Additional advice to students | Write and understand the noughts/ones example first. Do not try to implement to full grammar – use a cut-down one to begin with. |
| Feedback information | |
| Feedback mode/method | Written feedback from Neill, and, additionally, at any time verbally during lab sessions. |
| Planned feedback date | Before the end of February. |
| Useful previous feedback | Previous ADT/DS assignment |
| Future feedback use | Other programming units. |