**Checklist/Other technical details**

Please accomplish the following check list in order to allow for accurate marking of your assignment.

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|  | **Item** | **your assignment details** | | **Comments** |
| 1 | Names and ID numbers of Group Members | Isaac Clancy 16125296 | | (maximum of 3 members in a group) |
| 2 | Operating System used for testing your codes | Windows 10 | | (e.g. Windows 8.1) Note that the start-up codes only work on Windows. |
| 3 | Compiler used | gcc 5.1.0 | | (e.g. gcc 5.1.0) |
| 4 | IDE used | Visual studio 2017 community, SciTE | | (e.g. SublimeText 3, ScITE) |
| 5 | Complete source codes (cpp, h files), makefile | BFS\_NO\_VLIST | full/partial | Indicate ‘**full**’, if you have completed the implementation of an algorithm, or ‘partial’, if you are only submitting a partial implementation. |
| BFS\_VLIST | full/partial |
| PDS\_NO\_VLIST | full/partial |
| PDS\_NON\_STRICT\_VLIST | full/partial |
| ASTAR\_EXP\_LIST MISPLACED TILES HEURISTIC | full/partial |
| ASTAR\_EXP\_LIST MANHATTAN DISTANCE HEURISTIC | full/partial |
| 6 | Is your program able to run with the 2 batch files given? | Yes/No | | indicate ‘**Yes**’ or ‘**No**’ (batch files: run\_all.bat, run\_one.bat) |
| 7 | Experiment Results in Excel Worksheet | Yes/No | | indicate ‘**Yes**’ or ‘**No**’ |
| 8 | Extra work (Bonus): Enhancements/Optimisations included | Yes/No. (If Yes, list down all enhancements you have added.)  Original implementation of heap see PriorityQueue.h.  Original implementation of hashmap see HashMap.h also see Hasher in file algorithm.cpp for hash function. | | (e.g. original implementation of the Heaps data structure used to represent the priority Q in the A\* algorithm) |

Nothing follows.