

3(a)	One mark per emboldened part: 1 Open the file (Result.txt) in read mode 2 Loop until EOF(Result.txt) // EOF // end of file 3 Read a / the / next line (from the file) and store in ThisLine 4 Assign LineY to LineX 5 Assign LineZ to LineY 6 Assign ThisLine to LineZ 7 After the loop, close the file (Result.txt) 8 Output LineX, LineY, LineZ
3(b)	Example answer: So that the last three lines of the file are output in the correct order A mark for mentioning one of: • (Ensuring) the lines are output in correct order • Ordering the last <u>three</u> lines • Ordering the lines so they are in the same order as (they occur) <u>in the file</u> Max 1 marks
3(c)	Two loop solution One mark per point: 1 Loop until given line number (-1) / <parameter> (-1) (lines have been read) 2 ... if end of file is reached then return FALSE 3 Loop for three lines // Read three lines // Repeat of 4 and 5 for three lines 4 Read a line and output it 5 ... if end of file is reached then return FALSE 6 After outputting the (required) lines return TRUE 7 Ordering of lines no longer needed Max 4 marks Alternative solution One loop solution mark scheme that reads to given line number + 2 One mark per point 1 Loop until given line number + 2 / <parameter> + 2 (lines have been read) 2 OR end of file is reached 3 Return FALSE if EOF reached 4 Read a line from the file in the loop 5 Continue to order the last three lines read in the loop // Steps 4 to 6 stay the same 6 (If FALSE has not been returned) output the required three lines (in the correct order) 7 ... and Return TRUE Max 4 marks