

Q	Answer/Guidance	Marks
1a	EMPTYSTRING	1
1b	GetNextSymbol // GetNextLetter	1
1c	i	1
1d	LetterEnd // ProgramEnd	1
1e	Dash // Letter // Dot // MorseCode	1
1f	Dash // Dot	1
1g	Length // Write // ReadLine	1
1h	i // Transmission	1
2	<p>1 mark for each of the following:</p> <ul style="list-style-type: none"> String variable declared Initialised to user/console input Specified file accessed/opened/passed to <code>StreamReader</code> object Different/Transmission variable set to first line of the file 	4
3	<p>1 mark for each of the following:</p> <ul style="list-style-type: none"> (Repeatedly) prompt the user / accept user input Until X is entered / loop terminates at X 	2
4	<p>1 mark for each of the following (max 3):</p> <ul style="list-style-type: none"> Integer array Contains pointers Indicates which element to move to next... ... if the next Morse signal is a dash 	3
5	<p>1 mark for each of the following:</p> <ul style="list-style-type: none"> Initially set to the first character in <code>Transmission</code> As spaces are removed, it points to the new first character 	2
6	<p>1 mark for each of the following:</p> <ul style="list-style-type: none"> Integer is declared Set to the index of the last character in <code>Transmission</code> Loop repeats while <code>LastChar</code> / last character is a space If the last character is a space, remove it (from <code>Transmission</code>) Decrement <code>LastChar</code> / integer variable Return <code>Transmission</code>, with all spaces removed from end/right 	6
7	<p>1 mark for each of the following (max 3):</p> <ul style="list-style-type: none"> Gets ASCII value of <code>PlainTextCharacter</code> Gets ASCII value of A / Gets value 65 Subtracts ASCII value of A / 65 from ASCII value of <code>PlainTextCharacter</code> and adds 1 If <code>PlainTextLetter</code> is A, <code>Index</code> is 1 (for example) 	3
8	<p>1 mark for each of the following:</p> <ul style="list-style-type: none"> Catch block executed if <code>Try</code> block fails to execute correctly / generates exception File name mistyped // file not found // error reading file // error/exception in <code>StripLeadingSpaces</code> // error/exception in <code>StripTrailingSpaces</code> // <code>Transmission/EOL</code> not being a valid string 	2

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9	1 mark for each of the following (max 2): <ul style="list-style-type: none"> • Constants won't be accidentally changed • By being at the start of the code, the code is easier to read/understand (<i>must be clear that this is for the benefit of the human, not the computer</i>) • No need to remember (precise) values // constant names more memorable than values // code is more readable 	2
10	1 mark for each of the following (max 3): <ul style="list-style-type: none"> • A substring is part of a string • Is used here to trim the first character/space from a string • The substring is all characters besides the first one • Is called repeatedly if multiple spaces exist 	3
11	1 mark for <code>StripLeadingSpaces</code> instance: <ul style="list-style-type: none"> • If the length of <code>Transmission</code> is zero 1 mark for <code>GetTransmission</code> instance: <ul style="list-style-type: none"> • If there is a file error (accept any error relating to code in the <code>Try</code> block) // if the <code>Catch</code> block executes // if the <code>Try</code> block fails / generates an error/exception 3 marks for <code>GetNextSymbol</code> instance: <ul style="list-style-type: none"> • If the symbol is not a dot... • ... not a dash / minus sign... • ... not a space 	5
12	1 mark for each of the following: <ul style="list-style-type: none"> • <code>CodedLetterLength</code> variable set to 4 • <code>For</code> loop to run four times • <code>Symbol</code> initially set to - (dash) • <code>Pointer</code> set to 20 • <code>Symbol</code> then set to dot (on next iteration) • <code>Pointer</code> set to 14 • <code>Pointer</code> set to 4 (on next iteration) • <code>Symbol</code> then set to dash (on next iteration) • <code>Pointer</code> set to 24 • X retrieved from <code>Letter</code> array / X returned (<i>only credit this mark if there is an attempt to parse the arrays</i>) 	10
TOTAL MARKS		50