1 **Morse Decode from Andrew Sewell**

2 Solution to General Gates' message:
3 **ALL TROOPS REPORT MOST TOO LOAN FOR A TECHNOLOGY REFRESH**
4 **ALL TROOPS REPORT TO BOOT CAMP FOR A TECHNOLOGY REFRESH**
5
6

7 **What my machine did on the weekend; pseudocode**

8 In essence, how I solved the morse message. I would document this in MS Visio but it is a PITA.
9
10 Note:
11   PartialSolution.remainder is the unsolved portion of morse
12   PartialSolution.SolutionList is the collection solved words
13
14 **PartialSolution.Solve()**
15 Foreach word in the military dictionary
16   {
17   If word.IsMatch(beginning of partialSolution.remainder)
18   {
19   New PartialSolution p = this.Clone;
20   Add word to solution list of p;
21   Remove word.morse from beginning of p.remainder;
22   If p.remainder.length = 0
23   {
24   Add p to complete solutions
25   }
26   Else if p solution list has too many words or too many Es of Ts
27   {
28   Add p to discarded solutions
29   }
30   Else
31   {
32   p.Solve //recursive call
33   }
34   }
35
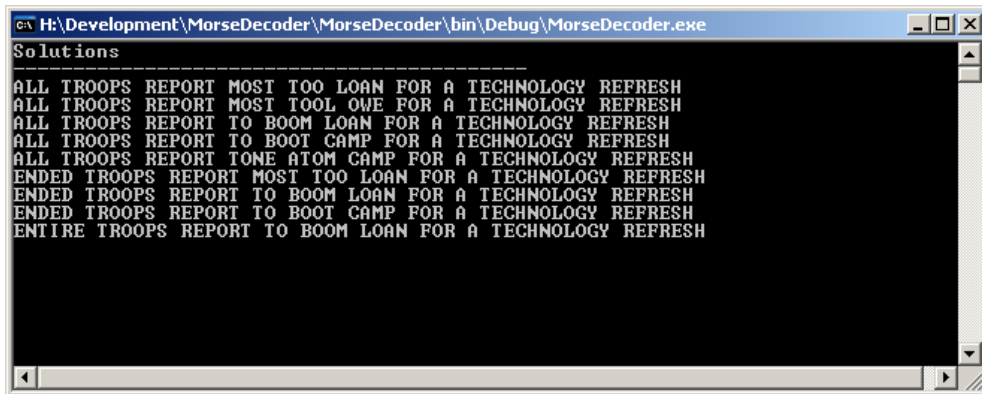36   }
37 **END**
38

39 **Included files**

40 * VS2005 console project files : I could not use netfx3.0 and VS2008 ('the new technology' ?) because I don't have it.
41 * text files in /data folder. App.config refers to all files.
42

43   **Software bug: 9 solutions generated: none correctly validated**

44

```
H:\Development\MorseDecoder\MorseDecoder\bin\Debug\MorseDecoder.exe
Solutions
-----------------------------------------
ALL TROOPS REPORT MOST TOO LOAN FOR A TECHNOLOGY REFRESH
ALL TROOPS REPORT MOST TOOL OWE FOR A TECHNOLOGY REFRESH
ALL TROOPS REPORT TO BOOM LOAN FOR A TECHNOLOGY REFRESH
ALL TROOPS REPORT TO BOOT CAMP FOR A TECHNOLOGY REFRESH
ALL TROOPS REPORT TONE ATOM CAMP FOR A TECHNOLOGY REFRESH
ENDED TROOPS REPORT MOST TOO LOAN FOR A TECHNOLOGY REFRESH
ENDED TROOPS REPORT TO BOOM LOAN FOR A TECHNOLOGY REFRESH
ENDED TROOPS REPORT TO BOOT CAMP FOR A TECHNOLOGY REFRESH
ENTIRE TROOPS REPORT TO BOOM LOAN FOR A TECHNOLOGY REFRESH
```

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47   **Genuine Solution**

48   I realise now that there is an omission in the software: it does not validate the character counts on the complete

49   solutions. I am not going to run the software again. Calculated the genuine solutions by hand, from the above

50   unvalidated solutions.

51

52   **Thanks for the fun.**

53   **Included files**

54