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| **Challenge** | **Topic** | **Answer** | **Score** | **Hints** |
| 1 | Variables | Stamp on it | 5 | This is case sensitive. |
| 2 | Variables | desert | 5 | People often want to put Chocolate but the quotation marks around “desert” on line 9 make it a string value rather than a variable name. |
| 3 | Variables | 30 | 5 | 10+20=30 |
| 4 | Variables | 14 | 5 | People often try to work out the value of hours on line 7, but you don’t need to. Only the value of days is outputted to the screen. |
| 5 | Variables | 8 | 5 | On line 6, LEN(message) counts the number of characters in the variable message (“bomb” = 4 characters) |
| 6 | Arrays | 4 | 10 | This a 1 dimensional array.  codes[secret] means work out what secret is (4) and then find the 4th item in the array called codes (4) |
| 7 | Arrays | "l" | 10 | Find the 4th item in the array |
| 8 | Arrays | "y0079" | 10 | You can treat a string like an array of characters, so codes[james], when james is 3 means find the 3rd letter in the string called codes |
| 9 | Arrays | "nuclear" | 10 | Arrange the characters in order |
| 10 | Arrays | "m" | 10 | 2 Dimensional array. Passwords[2][1] means find the 1st character of the 2nd word in the array called passwords |
| 11 | IF | 50 | 10 | Enemy\_distance is not less than 50 so ammo stays at 50 |
| 12 | IF | destroy | 10 | Targets[3] is the third item in the array (“station”), which isn’t “hospital”. |
| 13 | IF | 48small | 10 | Line 9 outputs 48, line 14 outputs small |
| 14 | IF | wrong | 10 | 5th letter is “e” not “s” |
| 15 | IF | wait… | 10 | Weather[2] is “cloudy” |
| 16 | CASE | OK | 10 | Temperatures[3] is 30, so line 12 is the line that runs in the CASE block |
| 17 | CASE | me dies | 10 | Line 9 outputs “me”.  Line 15 outputs “dies”. |
| 18 | CASE | 113...21 | 10 | Lines 7 to 16 repeat 8 times, using the variable I to count from 1 to 8 |
| 19 | CASE | hello you | 10 | Loops through each letter in “htwayizyp” and looks up a character from one of the words in the array called words |
| 20 | CASE | Follow 016 | 10 | On Line 8, target is set to the length of “York” minus 1 (3) |