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| **A1.** #include <stdio.h> int main(void) {  printf(“hello, world\n”);  return 0; } |
| **A2.**  (a) directives: line 1. statements: line 4~8.  (b)  Parkinson's Law:  Work expands so as to fill the time  available for its completion |
| **A3.**  1 /\* Computes the dimensional weight of a 12" x 10" x 8" box \*/  2  3 #include <stdio.h>  4  5 int main(void)  6 {  7 int height = 8, length = 12, width = 10;  8 int volume;  9  10 volume = height \* length \* width;  11  12 printf("Dimensions: %dx%dx%d\n", length, width, height);  13 printf("Volume (cubic inches): %d\n", volume);  14 printf("Dimensional weight (pounds): %d \n", (volume + 165) / 166);  15  16 return 0;  17 } |
| **A4.**  1 #include <stdio.h>  2  3 int main(void)  4 {  5 int int\_num1, int\_num2;  6 float float\_num1, float\_num2;  7  8 printf("int\_num1: %d\nint\_num2: %d\n\n",  int\_num1, int\_num2);  9 printf("float\_num1: %.2f\n, float\_num2: %.2f\n\n",  float\_num1, float\_num2);  10  11 return 0;  12 }  **Result**  int\_num1: 0  int\_num2: 0  float\_num1: -20799016665088.00  loat\_num2: 0.00 |
| **A5. (a)** |
| **A6. its’ too far to read. just one underscore is needed to separate each word, not two or more.** |
| **A7. (a), (e)** |
| **A8. 14**   |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **answer** | **=** | **(** | **3** | **\*** | **q** | **–** | **p** | **\*** | **p** | **)** | **/** | **3** | **;** | | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | |
| **A9. answer = ( (3 \* q) – (p \* q) ) / 3;** |
| **A10. new-line character is needed to end of the #include directive.** |