# ENGR142 Grade Report: Exam 1 Q16

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|---|---|---|---|
| **Name** | Kathryn Atherton | **Total Points Earned** | 13.0 |
| **Team** | 45 | **Total Points Possible** | 14 |
| **Grader** | Peter Jones | **Percentage Earned** | 93% |


| **Grading System Message(s)** | Individual Assignment Grade |
|---|---|

| **Does flowchart:** | **Pass** | **Part.** | **Fail** |
|---|---|---|---|
| Have input of lengths, wave speed, and max frequency indicated? | **0.5** | 0.25 | 0 |
| Have the wave numbers initialized appropriately? | **0.5** | 0.25 | 0 |
| Is there a pair of looping structures present that iterates over both wave numbers? | **1** | 0.5 | 0 |
| Compare wave numbers to the suggested maximum numbers? | **0.5** | 0.25 | 0 |
| Update the wave numbers appropriately? | **0.5** | 0.25 | 0 |
| Calculate the current frequency value indicated? | **0.5** | 0.25 | 0 |
| Contain a conditional to check if the frequency is appropriate? | **1** | 0.5 | 0 |
| Indicate acceptable modes and frequencies? | **0.5** | 0.25 | 0 |
| **Does program:** | **Pass** | **Part.** | **Fail** |
| Have correct filename? | **0** | NA | -0.5 |
| Have the correct header? | **0** | NA | -0.5 |
| Include appropriate header file(s)? | **0.5** | 0.25 | 0 |
| Declare all variables appropriately? | **0.5** | 0.25 | 0 |
| Input all requested variables appropriately? | **1** | 0.5 | 0 |
| Give the wave numbers appropriate initial values? | **0.5** | 0.25 | 0 |
| Use looping structures to iterate over both wave numbers? | **2** | 1 | 0 |
| Have logic to determine if a given wave number is too large? | **1** | 0.5 | 0 |
| Have appropriate computation of the current frequency? | **1** | 0.5 | 0 |
| Have a conditional to check if the current frequency is less than the maximum? | **1** | 0.5 | 0 |
| Output frequencies when appropriate? | **0.5** | 0.25 | 0 |
| **Subtotal** | **####** | **of** | **13** |

| **Test Case 1** | | | | |
|---|---|---|---|---|
| **Input** | **Output** | **Pass** | **Part.** | **Fail** |
| 0.9<br>0.18<br>80<br>1000 | Mode nx = 1, ny = 1 is acceptable. Frequency = 496.90 hertz<br>Mode nx = 1, ny = 2 is acceptable. Frequency = 628.54 hertz<br>Mode nx = 1, ny = 3 is acceptable. Frequency = 801.23 hertz<br>Mode nx = 1, ny = 4 is acceptable. Frequency = 993.81 hertz<br>Mode nx = 2, ny = 1 is acceptable. Frequency = 916.24 hertz<br>Mode nx = 2, ny = 2 is acceptable. Frequency = 993.81 hertz | 1 | NA | **0** |
| | **Subtotal** | **-** | **of** | **1** |

| **Total** | **13 of 14** |
|---|---|

| **Grader Comments** |
|---|
| Incorrect outputs! |