MAE 105 HW6 #1 Computation

```
clc; clear all;
temp = 0;
for n = 1:2:100
   for m = 1:2:100
       term = 1600/
(m*n*pi^2*sinh(pi*sqrt(m^2+n^2)))*sin(pi/2*n)*sin(pi/2*m)*sinh(pi/2*sqrt(m^2+n^2))
       temp = temp + term;
%        fprintf('For n=%d, m=%d, term = %.4f\n', n, m, term);
   end
%    fprintf('\n');
end
fprintf('The temperature at the middle of the cube is %.8f\n', temp);
```

```
The temperature at the middle of the cube is 16.66666667
```

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