```
function z = tensorproduct2D_lagrange(xy, pointx, pointy, pointz)
x = xy(1,:);
y = xy(2,:);
nxy = size(xy, 2);
% create the 1D interpolation matrices
Lx = lagrange1D(x,pointx);
Ly = lagrange1D(y,pointy);
nxi = length(pointx);
nyi = length(pointy);
L = ones(nxy,nxi*nyi);
for i = 1:nxi
    L(:,(i-1)*nyi+(1:nyi)) = (Lx(:,i)*ones(1,nyi)).*Ly;
end
z = L*pointz';
end
Not enough input arguments.
Error in tensorproduct2D_lagrange (line 3)
x = xy(1,:);
```

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