```matlab
%This function calculates the ifft of an array if the specified length
 (M)
%is a power of 2. Otherwise it throws an exception. Zero padding/array
 cut
%is used, if the array doesn't match the the specified length M.

function [ X ] = ifft_CT(y,M)

[a,b] = size(y);
if(a > b)
    x = circshift(flipud(y), 1,  1);
else
    x = circshift(fliplr(y), 1,  2);

X = 1/M * fft_CT(x, M);

end
```

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