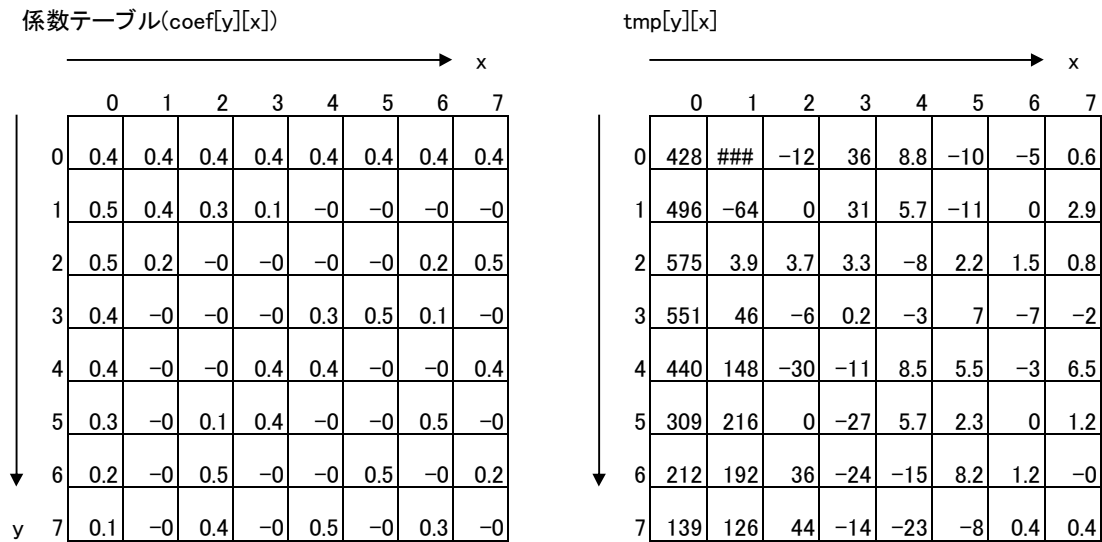
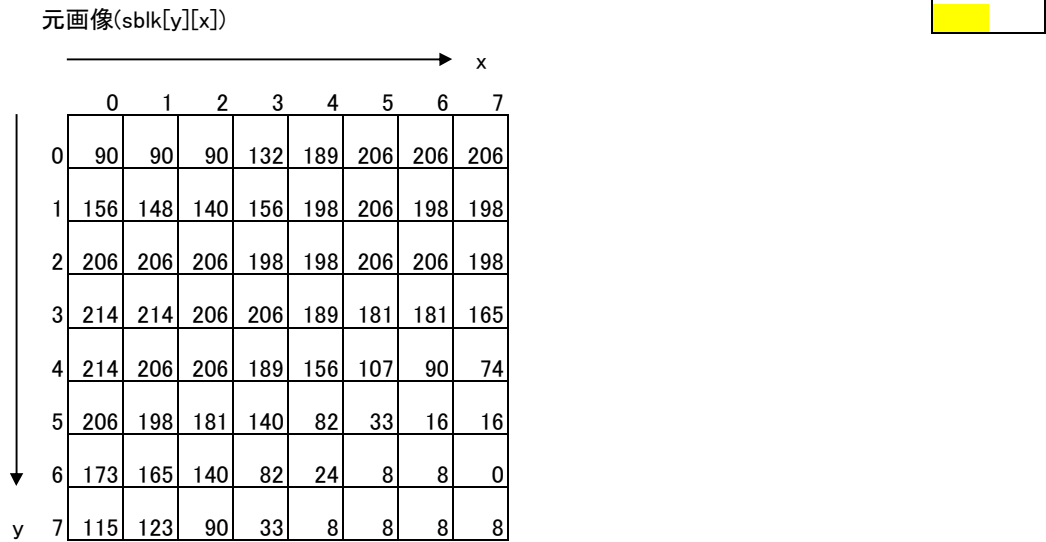


DCT変換の例(3)



$y = 0$ の場合

$coef[y][x] = \sqrt{\frac{1}{8}} \times \cos\left(\frac{(2 \times x + 1) \times y \times \pi}{16}\right)$

水平 DCT

$tmp[y][x] = \sum_{n=0}^7 \{sblk[y][n] \times coef[x][n]\}$

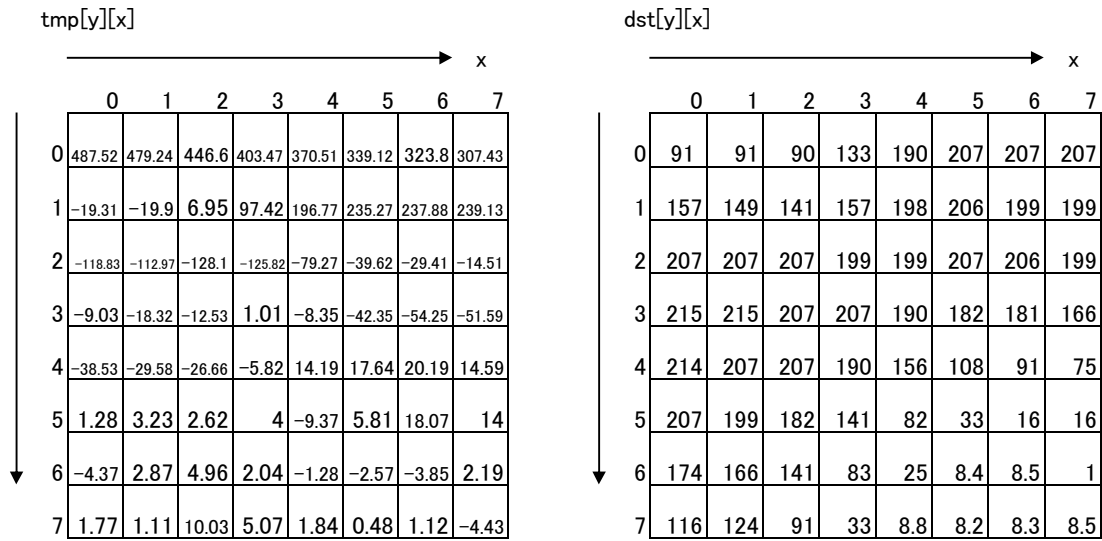
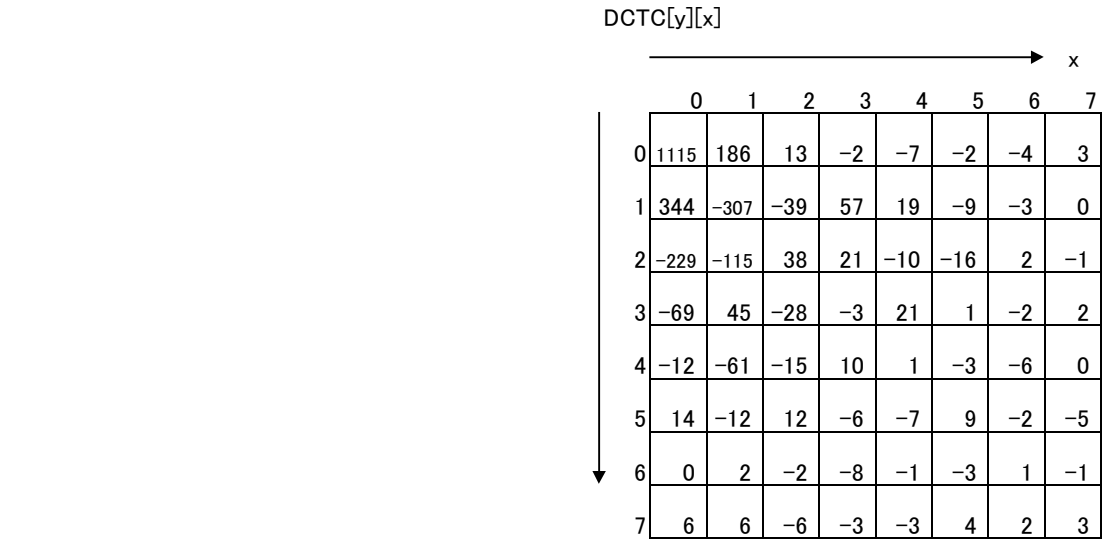
$y \neq 0$ の場合

$coef[y][x] = \sqrt{\frac{2}{8}} \times \cos\left(\frac{(2 \times x + 1) \times y \times \pi}{16}\right)$

垂直 DCT

$DCTC[y][x] = \sum_{n=0}^7 \{tmp[n][x] \times coef[y][n]\}$

式の展開例
tmp[0][0]=sblk[0][0]*coef[0][0]+sblk[0][1]*coef[0][1]+sblk[0][2]*coef[0][2]+sblk[0][3]*coef[0][3]+sblk[0][4]*coef[0][4]
+sblk[0][5]*coef[0][5]+sblk[0][6]*coef[0][6]+sblk[0][7]*coef[0][7]



水平 IDCT

$tmp[y][x] = \sum_{n=0}^7 \{dct[y][n] \times coef[n][x]\}$

垂直 IDCT

$dst[y][x] = \sum_{n=0}^7 \{tmp[n][x] \times coef[n][y]\}$