CIS 455 Class Activity #1: Partial Digest Problem

For input $L = \{1, 2, 3, 5, 7, 8\}$ solve the partial digest problem.

Final solution: $X = \{ 0, 5, 7, 8 \}$

Did you find more than one solution? If so, what are they?

$$X = \{ 0, 1, 3, 8 \}$$

Solve this problem by hand, using the partialDigest algorithm.

Mark all the steps you make including backtracking.

Variable y Value picked	Y'= y or Y'= (width - y)?	$\Delta(Y', X)$	Backtrack needed?	Updated L	Updated X
8	8	{8}	no	{1, 2, 3, 5, 7}	{0,8}
7	1	{1,7}	yes	{2, 3, 5}	{0, 1, 8}
5	3	{3,2,5}	no	{}	{0, 1, 3, 8}
	5	{5, <mark>4</mark> ,3}			
7	7	{7,1}	no	{2,3,5}	{0, 7, 8}
5	3	{3, 4 ,5}			
	5	{5,2,3}	no	{}	{0, 5, 7, 8}