Weights
dim = (F,F)

$W_{1,1}$	$\cdots$	$W_{1,F}$
$\cdots$		$\cdots$
$W_{F,1}$	$\cdots$	$W_{F,F}$

Initial Data
(features)
dim = (I,K)

$X_{1,1}$	$\cdots$	$X_{1,F}$	$\cdots$	$X_{1,K}$
$\cdots$		$\cdots$		$\cdots$
$X_{F,1}$	$\cdots$	$X_{F,F}$	$\cdots$	$X_{F,K}$
$\cdots$		$\cdots$		$\cdots$
$X_{I,1}$	$\cdots$	$X_{I,F}$	$\cdots$	$X_{I,K}$

Output, dim = (I-F+1,K-F+1)