TDT4205: Problem Set 2

Exercise 1

1.1 - 1.3

S-> uBDz B-> Bv | w D-> EF E-> y | ε F-> x | ε

	Nullable?	First(A)	Follow(A)
S	No	{u}	{Ø}
В	No	{w}	{z, v, y, x}
D	Yes	{x, y, ε}	{z}
E	Yes	{y, ε}	{z, x}
F	Yes	{x, ε}	{z}

1.4

	u	Z	V	W	У	X
S	S-> uBDz					
В				B-> Bv B-> w		
D		D->EF			D-> EF	D-> EF
E		Ε-> ε			E-> y	Ε-> ε
F		F-> ε				F-> x

There is a conflict, so the grammar is not LL(1).