

# FIRST i FOLLOW

## Smene gramatike

- (1)  $Blok \rightarrow \text{begin } NizNar \text{ end}$
- (2)  $NizNar \rightarrow Naredba \ NizNar'$
- (3)  $NizNar' \rightarrow ; \ Naredba \ NizNar'$
- (4)  $NizNar' \rightarrow \varepsilon$
- (5)  $Naredba \rightarrow Dodela$
- (6)  $Naredba \rightarrow Blok$
- (7)  $Dodela \rightarrow ID := Izraz$
- (8)  $Izraz \rightarrow \text{CONST } Izraz'$
- (9)  $Izraz' \rightarrow + \text{CONST } Izraz'$
- (10)  $Izraz' \rightarrow \varepsilon$

### FIRST

R. br.	Smena	First (Smena)
(1)	$Blok \rightarrow \text{begin } NizNar \text{ end}$	First (begin $NizNar$ end) = {begin}
(2)	$NizNar \rightarrow Naredba \ NizNar'$	First ( $Naredba \ NizNar'$ ) = First (Dodela) $\cup$ First (Blok) = {ID, begin}
(3)	$NizNar' \rightarrow ; \ Naredba \ NizNar'$	First ( $; \ Naredba \ NizNar'$ ) = {;}
(4)	$NizNar' \rightarrow \varepsilon$	
(5)	$Naredba \rightarrow Dodela$	First (Dodela) = {ID}
(6)	$Naredba \rightarrow Blok$	First (Blok) = {begin}
(7)	$Dodela \rightarrow ID := Izraz$	First ( $ID := Izraz$ ) = {ID}
(8)	$Izraz \rightarrow \text{CONST } Izraz'$	First ( $\text{CONST } Izraz'$ ) = {CONST}
(9)	$Izraz' \rightarrow + \text{CONST } Izraz'$	First ( $+ \text{CONST } Izraz'$ ) = {+}
(10)	$Izraz' \rightarrow \varepsilon$	

### FOLLOW

$\cup \subset \in$

**Blok:** FOLLOW(Blok) = {#, ;, end}

#  $\in$  FOLLOW(Blok)  
 (6) FOLLOW(Naredba)  $\subset$  FOLLOW(Blok)

**NizNar:** FOLLOW(NizNar) = {end}

(1) end  $\in$  FOLLOW(NizNar)

**NizNar':** FOLLOW(NizNar') = {end}

(2) FOLLOW(NizNar)  $\subset$  FOLLOW(NizNar')  
 (3) FOLLOW(NizNar')  $\subset$  FOLLOW(NizNar')

**Naredba:** FOLLOW(Naredba) = {;, end}

(2) FIRST(NizNar')  $\subset$  FOLLOW(Naredba)  
 (2)  $NizNar \rightarrow Naredba \rightarrow$  FOLLOW(NizNar)  $\subset$  FOLLOW(Naredba)  
 (3) FIRST(NizNar')  $\subset$  FOLLOW(Naredba)

(3)  $NizNar' \rightarrow ; Naredba \rightarrow FOLLOW(NizNar') \subset FOLLOW(Naredba)$

**Dodela:**  $FOLLOW(Dodela) = \{ ; , end \}$

(5)  $FOLLOW(Naredba) \subset FOLLOW(Dodela)$

**Izraz:**  $FOLLOW(Izraz) = \{ ; , end \}$

(7)  $FOLLOW(Dodela) \subset FOLLOW(Izraz)$

**Izraz':**  $FOLLOW(Izraz') = \{ ; , end \}$

(8)  $FOLLOW(Izraz) \subset FOLLOW(Izraz')$

(9)  $FOLLOW(Izraz') \subset FOLLOW(Izraz')$