

Domaći rad iz predmeta Programiranje 1

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1 Kontekst Slobodnom Gramatikom

Opis kategorije realnog broja KSG-om.

$$G = (N, \Sigma, P, S)$$

$$\Sigma = \{+, -, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, .\}$$

$$N = \{S, Z, C, V\}$$

S - početni simbol (Realan Broj);

Z - znak;

B - neoznačen ceo broj;

C - cifra;

$$P = \{S \rightarrow B, S \rightarrow ZB, S \rightarrow B.B, S \rightarrow ZB.B, Z \rightarrow +, Z \rightarrow -C \rightarrow 0, C \rightarrow 1, C \rightarrow 2, C \rightarrow 3, C \rightarrow 4, C \rightarrow 5, C \rightarrow 6, C \rightarrow 7, C \rightarrow 8, C \rightarrow 9, B \rightarrow CB, B \rightarrow BC, B \rightarrow \varepsilon B \varepsilon, \}$$

S - početni simbol (Realan Broj);

Z - znak;

B - neoznačen ceo broj;

C - cifra;

2 BNF notacija

Opis kategorije realnog broja Backus-naurovom formom.

$\langle \text{Cifra} \rangle ::= 0 \mid 1 \mid 2 \mid 3 \mid 4 \mid 5 \mid 6 \mid 7 \mid 8 \mid 9$

$\langle \text{NCB} \rangle ::= \langle \text{Cifra} \rangle \mid \langle \text{Cifra} \rangle \langle \text{NCB} \rangle$

$\langle \text{NRB} \rangle ::= \langle \text{NCB} \rangle \mid \langle \text{NCB} \rangle . \langle \text{NCB} \rangle$

$\langle \text{realanBroj} \rangle ::= - \langle \text{NRB} \rangle \mid + \langle \text{NRB} \rangle \mid \langle \text{NRB} \rangle$

3 EBNF notacija

Opis kategorije realnog broja Proširenom Backus-naurovom formom.

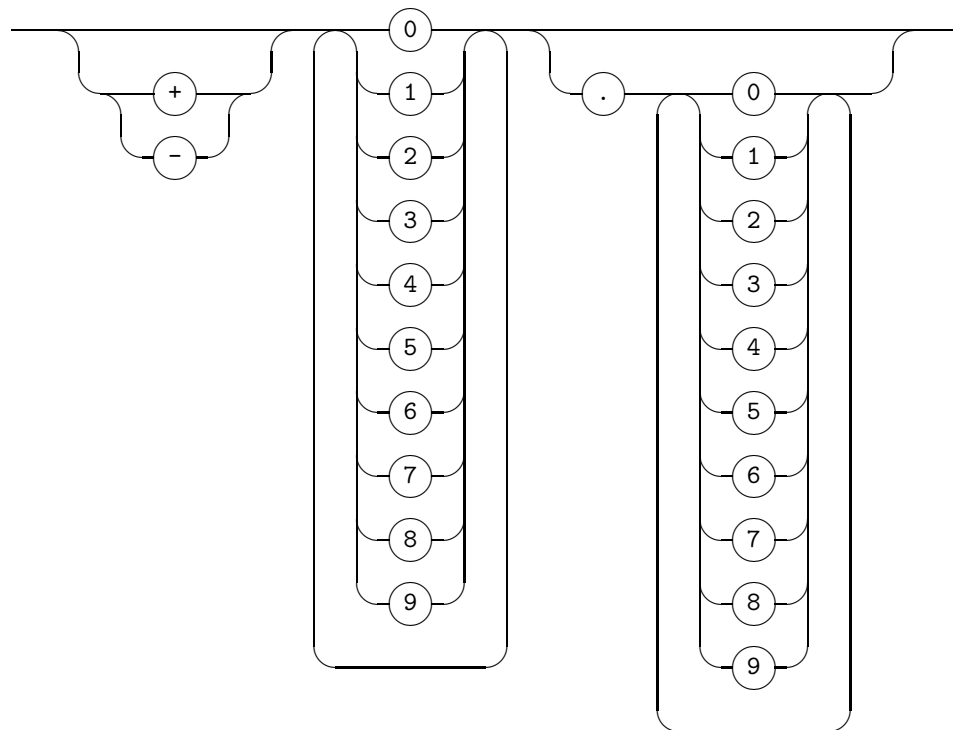
$\text{Cifra} ::= '0' \mid '1' \mid '2' \mid '3' \mid '4' \mid '5' \mid '6' \mid '7' \mid '8' \mid '9'$

$\text{RealanBroj} ::= ['+' \mid '-'] \text{Cifra}\{\text{Cifra}\} ['.' \text{Cifra}\{\text{Cifra}\}]$

4 Sintaksni dijagram

Sintaksni dijagram za opis kategorije realnog broja.

RealanBroj



Sadržaj seminarskog rada

1	Kontekst Slobodnom Gramatikom	2
2	BNF notacija	2
3	EBNF notacija	2
4	Sintaksni dijagram	3