1. Original Grammar

W -> PROGRAM B; D BEGIN I END.

B -> UC

 $C \rightarrow OC \mid UC \mid \lambda$

D -> H : G;

 $G \rightarrow B$, $G \mid B$

H -> INTEGER

I -> J | JI

J -> K | A

K -> PRINT(B);

 $A \rightarrow B = E;$

E -> E + T | E - T | T

 $T \rightarrow T * F \mid T / F \mid F$

F -> B | N | (E)

N -> LOM

 $L \rightarrow + |-|\lambda$

 $M \rightarrow OM \mid \lambda$

 $0 \rightarrow 0|1|2|3|4|5|6|7|8|9$

 $U \rightarrow P \mid Q \mid R \mid S$

Non-Terminal	
<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	W
<identifier></identifier>	В
<more-id-digit></more-id-digit>	С
<dec-list></dec-list>	D
<dec></dec>	G
<type></type>	Н
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