RedoLoop → **loop (** Expression **) {** Statement **redo** **(** Expression **) ;** Statement **}**

Expression → Expression **||** AndExpression **|** AndExpression

AndExpression → AndExpression **&&** Term | Term

Term → **ID | CONST**

Statement → RedoLoop | **ID =** Expression **;**

1. RedoLoop → **loop (** Expression **) {** Statement **redo** **(** Expression **) ;** Statement **}**
2. Expression → AndExpression Expression’
3. Expression’ → **||** AndExpression Expression’
4. Expression’ → e
5. AndExpression → Term AndExpression’
6. AndExpression’ →**&&** Term AndExpression’
7. AndExpression’ →e
8. Term → **ID**
9. Term → **CONST**
10. Statement → RedoLoop
11. Statement → **ID =** Expression **;**

|  |  |  |
| --- | --- | --- |
| **R. Br.** | **Smena** | **FIRST(Smena)** |
| **1** | RedoLoop → **loop (** Expression **) {** Statement **redo** **(** Expression **) ;** Statement **}** | FIRST(**loop (** Expression **) {** Statement **redo** **(** Expression **) ;** Statement **}) = { loop }** |
| **2** | Expression → AndExpression Expression’ | FIRST(AndExpression Expression’) ={ ID, CONST} |
| **3** | Expression’ → **||** AndExpression Expression’ | FIRST(|| AndExpression Expression’) = { || } |
| **4** | Expression’ → e |  |
| **5** | AndExpression → Term AndExpression’ | FIRST(Term AndExpression’) = {ID, CONST} |
| **6** | AndExpression’ →**&&** Term AndExpression’ | FIRST(**&&** Term AndExpression’) = {&&} |
| **7** | AndExpression’ →e |  |
| **8** | Term → **ID** | FIRST(ID) = {ID} |
| **9** | Term → **CONST** | FIRST(CONST) ={CONST} |
| **10** | Statement → RedoLoop | FIRST(RedoLoop) ={loop} |
| **11** | Statement → **ID =** Expression **;** | FIRST(**ID =** Expression ;)={ID} |

**FOLLOW**

RedoLoop:

**FOLLOW(RedoLoop) = { #, redo, } }**

Expression:

**FOLLOW(Expression) = { ), ; }**

Expression’:

**FOLLOW(Expression’) = { ), ; }**

AndExpression:

**FOLLOW(AndExpression) = { ), ;, || }**

AndExpression’:

**FOLLOW(AndExpression’) = { ), ;, || }**

Term:

**FOLLOW(Term) = { &&, ), ;, || }**

Statement:

**FOLLOW(Statement) = { redo, } }**

**RedoLoop <=> RL**

**Expression <=> E**

**Espression’ <=> E’**

**AndExpression <=> AE**

**AndExpression' <=> AE’**

**Term <=> T**

**Statemeant <=> S**

**loop (** Expression **) {** Statement **redo** **(** Expression **) ;** Statement **} <=> exp1**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Vrh Magacina** | **Ulazni simbol** | | | | | | | | | | | |
| **loop** | **(** | **)** | **{** | **redo** | **;** | **}** | **||** | **&&** | **ID** | **CONST** | **#** |
| **RL** | (exp1, 1) |  |  |  |  |  |  |  |  |  |  |  |
| **E** |  |  |  |  |  |  |  |  |  | (AEE’, 2) | (AEE’, 2) |  |
| **E’** |  |  | (e, 4) |  |  | (e, 4) |  | (AEE’, 3) |  |  |  |  |
| **AE** |  |  |  |  |  |  |  |  |  | (TAE’, 5) | (TAE’, 5) |  |
| **AE’** |  |  | (e,7) |  |  | (e,7) |  | (e,7) | (TAE’, 6) |  |  |  |
| **T** |  |  |  |  |  |  |  |  |  | (ID, 8) | (CONST, 9) |  |
| **S** | (RL, 10) |  |  |  |  |  |  |  |  | (ID=E;, 11) |  |  |
| **loop** | **pop** |  |  |  |  |  |  |  |  |  |  |  |
| **(** |  | **pop** |  |  |  |  |  |  |  |  |  |  |
| **)** |  |  | **pop** |  |  |  |  |  |  |  |  |  |
| **{** |  |  |  | **pop** |  |  |  |  |  |  |  |  |
| **redo** |  |  |  |  | **pop** |  |  |  |  |  |  |  |
| **;** |  |  |  |  |  | **pop** |  |  |  |  |  |  |
| **}** |  |  |  |  |  |  | **pop** |  |  |  |  |  |
| **||** |  |  |  |  |  |  |  | **pop** |  |  |  |  |
| **&&** |  |  |  |  |  |  |  |  | **pop** |  |  |  |
| **ID** |  |  |  |  |  |  |  |  |  | **pop** |  |  |
| **CONST** |  |  |  |  |  |  |  |  |  |  | **pop** |  |
| **#** |  |  |  |  |  |  |  |  |  |  |  | **acc** |