CS F351

Assignment-2

This Assignment is Submitted as an Evaluation Component of TOC Course
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Grammar for Basic C

1. < Start_Sym > → < Dec_Stat >; | < Dec_Stat >;< Prod > | < Prod >
2. < Dec_Stat > → *int* < Var_List >
3. < Var_List > → < Var >, < Var_List > | < Var >
4. < Prod > → < Stat > < Prod > | < Stat >
5. < Stat > → < Read_Stat >; | < Write_Stat >; | < Assign_Stat >; | < For_Loop_Stat > ;
6. < Read_Stat > → *read* < Var >
7. < Write_Stat > → *write* < Var > | *write* < Int_Const >
8. < Assign_Stat > → < Var > = < Expr >
9. < Expr > → < Expr > > < Term1 > | < Expr > == < Term1 > | < Term1>
10. < Term1 > → < Term1 > + < Term2 > | < Term1 > - < Term2 > | < Term2 >
11. < Term2 > → < Term2 > * < Factor > | < Term2 > / < Factor > | < Factor >
12. < Factor > → (< Expr >) | < Var > | < Int_Const >
13. < For_Loop_Stat > → *for* (< Assign_Stat >; < Expr > ; < Assign_Stat >) {< Seq >}
14. < Seq > → < Stat > | < Stat > < Seq >
15. < Var > → i | i < Alpha > | in < Alpha_Excl_T > | in < Alpha > < Alpha_Rec > | i< Alpha_Excl_N >< Alpha_Rec > | f | f < Alpha > | fo< Alpha_Excl_R> | fo< Alpha >< Alpha_Rec > | f< Alpha_Excl_O >< Alpha_Rec > | r | r< Alpha > | r< Alpha >< Alpha > | r< Alpha_Excl_E >< Alpha_Rec > | re< Alpha_Excl_A >< Alpha_Rec > | rea< Alpha_Excl_D > | rea < Alpha >< Alpha_Rec > | w | w < Alpha > | w< Alpha_Excl_R >< Alpha_Rec > | wr< Alpha_Excl_I >< Alpha_Rec >| wri< Alpha_Excl_T >< Alpha_Rec > | writ< Alpha_Excl_E > | writ< Alpha >< Alpha_Rec > | w< Alpha >< Alpha > | w< Alpha >< Alpha >< Alpha > | < Non_Key_Alpha > < Alpha_Rec > | < Non_Key_Alpha >
16. < Alpha_Excl_A > → b | c | d | e | f | g | h | i | j | k | l | m | n | o | p | q | r | s | t | u | v | w | x | y | z
17. < Alpha_Excl_D > → a | b | c | e | f | g | h | i | j | k | l | m | n | o | p | q | r | s | t | u | v | w | x | y | z
18. < Alpha_Excl_E> → a | b | c | d | f | g | h | i | j | k | l | m | n | o | p | q | r | s | t | u | v | w | x | y | z
19. < Alpha_Excl_I > → a | b | c | d | e | f | g | h | j | k | l | m | n | o | p | q | r | s | t | u | v | w | x | y | z
20. < Alpha_Excl_N > → a | b | c | d | e | f | g | h | i | j | k | l | m | o | p | q | r | s | t | u | v | w | x | y | z
21. < Alpha_Excl_O > → a | b | c | d | e | f | g | h | i | j | k | l | m | n | p | q | r | s | t | u | v | w | x | y | z

22.< Alpha_Excl_R > → a | b | c | d | e | f | g | h | i | j | k | l | m | n | o | p | q | s | t | u | v | w | x | y | z
23. < Alpha_Excl_T > → a | b | c | d | e | f | g | h | i | j | k | l | m | n | o | p | q | r | s | u | v | w | x | y | z
24.< Alpha > → a | b | c | d | e | f | g | h | i | j | k | l | m | n | o | p | q | r | s | t | u | v | w | x | y | z
25.< Non_Key_Alpha > → a | b | c | d | e | g | h | j | k | l | m | n | o | p | q | s | t | u | v | x | y | z
26. < Alpha_Rec > → < Alpha_Rec > < Alpha > | < Alpha>
27.< Int_Const > → 0 | < Non_Zero_Unsign_Int >
28. < Non_Zero_Unsign_Int > → < Non_Zero_Digit >< Digits > | < Non_Zero_Digit >
29. < Non_Zero_Digit > → 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9
30.< Digits > → < Digits >< Digits >
31. < Digits > → 0 | < Non_Zero_Digit >