Assignment 8 – 15 - May - 2023

Write LEX and YACC program to generate Intermediate code Generation for the following :

INPUT	OUTPUT

while(a<c or c>d)
 	
 {
 	
    if(x<y and y<z or z<x)
 	
       z=x+y*w;
 	
    else
 	
       z=z+1;
 	
 }
	1. if (a<c) goto(3)
	 2. goto(17)
	 3. if (c>d) goto(5)
	 4. goto(17)
	 5. if (x<y) goto(7)
	 6. goto(15)
	 7. if (y<z) goto(11)
	 8. goto(9)
	 9. if (z<x) goto(11)
	 10. goto(15)
	 11. t1=y*w
	 12. t2=x+t1
	 13. z=t2
	 14. goto(1)
	 15. t3=z+t1
	 16. z=t3
	 17.

INPUT	OUTPUT

while(A<C and B >D)
 	
{
 	
  if A = 1 then
 	
    C = C + 1;
 	
  else
 	
      while A<= D
 	
        A = A + B;
 	
}
	1. if (A < C) goto(3)
	2. goto(15)
	3. if (B > D) goto(5)
	4. goto(15)
	5. if (A = 1) goto(7)
	6. goto(10)
	7. T1 = C + 1
	8. C = T1
	9. goto(1)
	10. if(A <= D) goto(12)
	11. goto(1)
	12. T2 = A + B
	13. A = T2
	14. goto(10)
	15.

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