1．T0,T1,T2,T3,T4,T5, T6 are dead
(1)T0:=3.14   (2)T1:=2*T0   (3)T2:=R+r
(4)A:=T1*T2   (5)B:=A   (6)T3:=2*T0
(7)T4:=R+r   (8)T5:=T3*T4 (9)T6:=R-r
(10)B:=T5*T6

2．Please **construct the DAG** for the following basic block, and we assume that only variable "M" is live on exit, please optimize the block and **rewrite the block** in optimized code form

E=A+B

F=E-C

G=F*F

H=E-C

I=H-G

J=I+G

M=J*J

3. Please **construct the DAG** for the following basic block, and we assume that only variable "M" is live on exit, please optimize the block and **rewrite the block** in optimized code form.

E=2+3

F=E-C

G=F*F

H=E-C

I=H-G

J=I+G

M=I[J]

4. Please **construct the DAG** for the following basic block, optimize the block and **rewrite the block** in optimized code form. Note that we assume **only Variable M would be used later**

A=B*C

D=B/C

E=A+D

F=2*E

G=B*C

H=G*G

F=H*G

L=F

M=L

5. Please **construct the DAG** for the following basic block, optimize the block and **rewrite the block** in optimized code form. Note that we assume **only Variable G,L,M would be used later**

B=3

D=A+C

E=A*C

F=D+E

G=B*F

H=A+C

I=A*C

J=H+I

K=B*5

L=K+J

M=L