**PSEUDO CODE**

X=R0

(LOOP 1a)

x=x-2

if x>0:

go to LOOP1a

elif x==0:

go to LOOP1c

else:

go to LOOP1b

(LOOP1c)

R10=R10+R0

(LOOP1b)

R10=R10

X=R1

(LOOP 2a)

x=x-2

if x>0:

go to LOOP2a

elif x==0:

go to LOOP2c

else:

go to LOOP2b

(LOOP2c)

R10=R10+ R1

(LOOP2b)

R10=R10

X=R2

(LOOP 3a)

x=x-2

if x>0:

go to LOOP3a

elif x==0:

go to LOOP3c

else:

go to LOOP3b

(LOOP3c)

R10=R10+ R2

(LOOP3b)

R10=R10

X=R3

(LOOP 4a)

x=x-2

if x>0:

go to LOOP4a

elif x==0:

go to LOOP4c

else:

go to LOOP4b

(LOOP4c)

R10=R10+R

(LOOP4b)

R10=R10

X=R4

(LOOP 5a)

x=x-2

if x>0:

go to LOOP5a

elif x==0:

go to LOOP5c

else:

go to LOOP5b

(LOOP5c)

R10=R10+R4

(LOOP5b)

R10=R10

X=R5

(LOOP 6a)

x=x-2

if x>0:

go to LOOP6

elif x==0:

go to LOOP6c

else:

go to LOOP6b

(LOOP6c)

R10=R10+R5

(LOOP6b)

R10=R10

X=R

(LOOP 7a)

x=x-2

if x>0:

go to LOOP7a

elif x==0:

go to LOOP7c

else:

go to LOOP7b

(LOOP7c)

R10=R10+R6

(LOOP7b)

R10=R10

X=R7

(LOOP 8a)

x=x-2

if x>0:

go to LOOP8a

elif x==0:

go to LOOP1c

else:

go to LOOP8b

(LOOP8c)

R10=R10+R7

(LOOP8b)

R10=R10

X=R8

(LOOP 9a)

x=x-2

if x>0:

go to LOOP9a

elif x==0:

go to LOOP9c

else:

go to LOOP9b

(LOOP9c)

R10=R10+R8

(LOOP9b)

R10=R10

X=R9

(LOOP 10a)

x=x-2

if x>0:

go to LOOP10a

elif x==0:

go to LOOP10c

else:

go to LOOP10b

(LOOP10c)

R10=R10+R9

(LOOP10b)

R10=R10

(END)