RUNNING TEST CASE FILE "test1.txt"

Syntax Analysis Successful.

Identifier	Type	Memory Address
	int	5000
max	int	5001
sum	int	5002
Address	OpCode	Operand
1	PUSHI	0
2	POPM	5002
3	PUSHI	1
4	POPM	5000
5	STDIN	
6	POPM	5001
7	LABEL	
	PUSHM	5000
9	PUSHM	5001
10	LES	
11	JUMPZ	21
12		5002
13	PUSHM	5000
14	ADD	
15	POPM	5002
16	PUSHM	5000
17	PUSHI	1
18	ADD	
19	POPM	5000
20	JUMP	7
21		5002
22	PUSHM	5001
23	ADD	
24	STDOUT	

3AC Code Generated Successfully!

RUNNING TEST CASE FILE "test2.txt"

Syntax Analysis Successful.

Туре	Memory Address
int	5000 5001
	5001
	5002
IIIC	3003
OpCode	Operand
	0
POPM	5002
PUSHI	0
POPM	5003
STDIN	
POPM	5000
STDIN	
POPM	5001
LABEL	
PUSHM	5002
PUSHM	5001
	23
	5003
	5000
	5003
	5002
	1
	5002
	9
	5003
STDOUT	
	int int int int opCode PUSHI POPM PUSHI POPM STDIN POPM STDIN POPM LABEL PUSHM PUSHM PUSHM LES JUMPZ PUSHM PUSHM MUL

3AC Code Generated Successfully!

RUNNING TEST CASE FILE "test3.txt"

Syntax Analysis Successful.

Identifier	Type	Memory Address
interestTotal Principle years periods rate totalPower count	int int int int int int int int	5000 5001 5002 5003 5004 5005 5006

Address	OpCode	Operand
1	STDIN	
2	POPM	5001
3	STDIN	
4	POPM	5002
5	STDIN	
6	POPM	5003
7	STDIN	
8	POPM	5004
9	PUSHI	0
10	POPM	5006
11	PUSHI	0
12	POPM	5000
13	PUSHM	5002
14	PUSHM	5003
15	MUL	
16	POPM	5005
17	PUSHM	5006
18	PUSHM	5005
19	LES	
20	JUMPZ	31
21	PUSHM	5000
22	PUSHM	5001
23	MUL	
24	PUSHI	1
25	PUSHM	5004
26	PUSHM	5003
27	DIV	
28	ADD	
29	MUL	
30	POPM	5000
31	PUSHM	5000
32	STDOUT	

3AC Code Generated Successfully!

RUNNING TEST CASE FILE "test4.txt"

Syntax Analysis Successful.

Identifier	Type	Memory Address
realVarA	real	5000
realVarB	real	5000
realVarC	real	5002
XCoord	int	5003
YCoord	int	5004
ZCoord	int	5005
aCoord	int	5006
bCoord	int	5007
cCoord	int	5008
operation	int	5009
	boolean	5010
success	boolean	2010
Address	OpCode	Operand
1	PUSHI	10123
2	POPM	5000
3	PUSHI	610
4	POPM	5001
5	PUSHI	3
6	POPM	5002
7	PUSHI	20
8	POPM	5003
9	PUSHI	912
10	POPM	5004
11		120
	PUSHI	
12	POPM	5005
13	PUSHI	1
14	POPM	5006
15	PUSHI	0
16	POPM	5007
17	PUSHM	0
18	POPM	5008
19	PUSHM	5008
20	POPM	0
21	PUSHI	420
22	POPM	5010
23	PUSHM	5003
24	POPM	5000
25	STDIN	
26	POPM	5009
27	PUSHM	0
28	PUSHI	5
29	EQU	
30	JUMPZ	33
31	PUSHI	0
32	POPM	5010
33	PUSHI	5
34	PUSHM	0
35	EQU	
36	JUMPZ	39
37	PUSHI	1
38	POPM	5010

Output.txt	11011	Dec
39	LABEL	
40	PUSHM	5009
41	PUSHI	0
42	NEQ	
43	JUMPZ	123
44	PUSHM	5009
45	PUSHI	1
46	EQU	
47	JUMPZ	60
48	PUSHM	5000
49	PUSHM	5003
50	ADD	
51	POPM	5006
52	PUSHM	5001
53	PUSHM	5004
54	ADD	
55	POPM	5007
56	PUSHM	5002
57	PUSHM	5005
58	ADD	
59	POPM	5008
60	PUSHM	5009
61	EOU	
62	JUMPZ	75
63	PUSHM	5000
64	PUSHM	5003
65	SUB	
66	POPM	5006
67	PUSHM	5001
68	PUSHM	5004
69	SUB	3004
70	POPM	5007
71	PUSHM	5007
72	PUSHM	5002
73	SUB	5005
74		F000
	POPM	5008
75	PUSHM	5009
76	PUSHI	3
77	EQU	0.0
78	JUMPZ	90
79	PUSHM	5003
80	PUSHI	2
81	MUL	
82	POPM	5006
83	PUSHM	5004
84	MUL	
85	POPM	5007
86	PUSHM	5005
87	PUSHM	5005
88	MUL	
89	POPM	5008
90	PUSHM	5009
91	PUSHI	45
92	EQU	
93	JUMPZ	106
94	PUSHM	5000
95	PUSHM	5003
96	DIV	
97	POPM	5006
98	PUSHM	5001
99	PUSHM	5004
100	DIV	
101	POPM	5007
102	PUSHM	5002
103	PUSHM	5005
104	DIV	
105	POPM	5008
106	PUSHM	5009
107	PUSHI	4
108	GRT	
109	JUMPZ	112
110	PUSHI	0
111	POPM	5009
112	PUSHM	5009
113	PUSHI	0
114	GRT	
115	JUMPZ	118
116	PUSHI	0
117	POPM	5009
118	PUSHM	5009
119	PUSHI	1
120	SUB	
121	POPM	5009
122	JUMP	39
123	PUSHM	5006
124	STDOUT	
125	PUSHM	5007
126	STDOUT	
127	PUSHM	5008
128	STDOUT	
23 ERRORS FOUNI)	

23 ERRORS FOUND

[[]ERR] (Line 7) DUPLICATE SYMBOL "XCoord"
[ERR] (Line 13) TYPE MISMATCH. Expected "real"
[ERR] (Line 14) TYPE MISMATCH. Expected "real"

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[ERR] (Line 15) TYPE MISMATCH. Expected "real" [ERR] (Line 19) TYPE MISMATCH. Expected "int" [ERR] (Line 20) TYPE MISMATCH. Expected "int" [ERR] (Line 21) UNDECLARED VARIABLE "unknown" [ERR] (Line 22) UNDECLARED VARIABLE "unknown" [ERR] (Line 23) TYPE MISMATCH. Expected "boolean" [ERR] (Line 25) TYPE MISMATCH. Expected "real" [ERR] (Line 31) UNDECLARED VARIABLE "unknown" [ERR] (Line 37) UNDECLARED VARIABLE "unknown" [ERR] (Line 37) UNDECLARED VARIABLE "unknown" [ERR] (Line 45) TYPE MISMATCH. Expected "int" [ERR] (Line 46) TYPE MISMATCH. Expected "int" [ERR] (Line 47) TYPE MISMATCH. Expected "int" [ERR] (Line 49) TYPE MISMATCH. Expected "int" [ERR] (Line 51) TYPE MISMATCH. Expected "int" [ERR] (Line 52) TYPE MISMATCH. Expected "int" [ERR] (Line 53) TYPE MISMATCH. Expected "int" [ERR] (Line 58) TYPE MISMATCH. Expected "int" [ERR] (Line 63) TYPE MISMATCH. Expected "int" [ERR] (Line 64) TYPE MISMATCH. Expected "int" [ERR] (Line 65) TYPE MISMATCH. Expected "int" [ERR] (Line 65) TYPE MISMATCH. Expected "int"
```