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2/2/2017
Population Flowchart
Gaddis Ch6 Prob 16

iostream
iomanip
Namespace std

no user libraries

Constants -
None to declare

Function Prototypes
float popCalc

A

Start Main

Variables
Float - population,
birthrate (percent),
deathrate (percent),
Int - years to forecast

input
initial population

pop < 2

Output
ERROR! Value
must be greater
than 2

input birthrate
as percentage of
population

birthrate < 0

Output
ERROR! Value
must be a
positive value

input deathrate
as percentage of
population

deathrate < 0

Output
ERROR! Value
must be a
positive value

Input years to
forecast

Years < 1

Output
ERROR! Value
must be more
than 1!

B

B

output:
The population
will grow as
follows:

popCalc - pop,
birth, death,
years

Return 0;
exit

popCalc
pop, birth, death,
years

$pop += ((pop * brate) - (pop * drate))$

pop < 0

pop = 0

popA

Output:
Years pop

popA

count++

Return pop
Exit

popA

Output:
Years pop