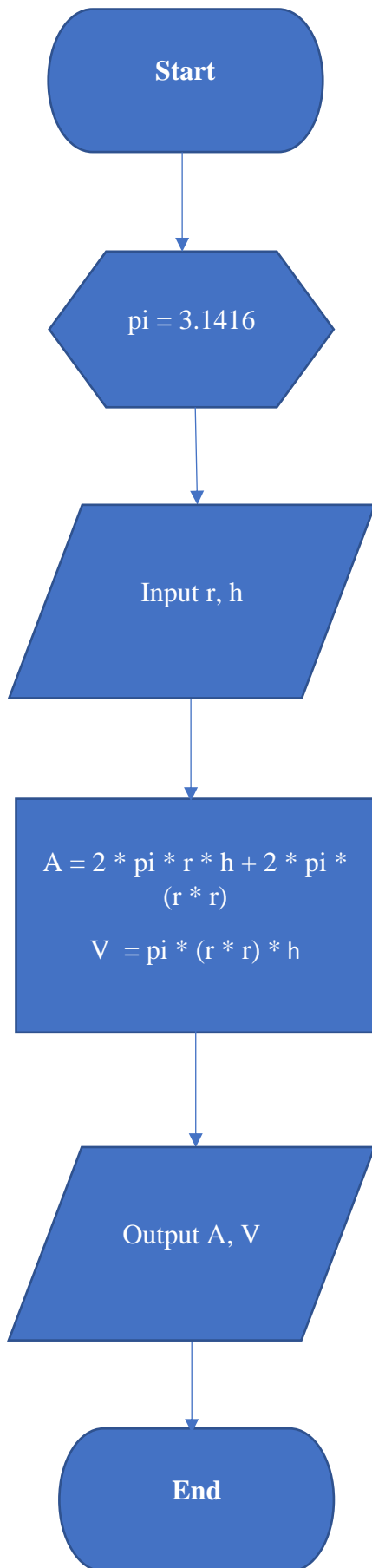


Sequential Flowchart:



Sequential Pseudocode:

Variables used:

r, h, pi, A, V are numeric.

Begin:

Initialization:

pi = 3.1416

Input:

Display "Enter radius:"

accept r

Display "Enter height:"

accept h

Process:

$A = 2 * \pi * r * h + 2 * \pi * (r * r)$

$V = \pi * (r * r) * h$

Output:

Display "Surface Area =", A

Display "Volume =", V

End.

Sample Output:

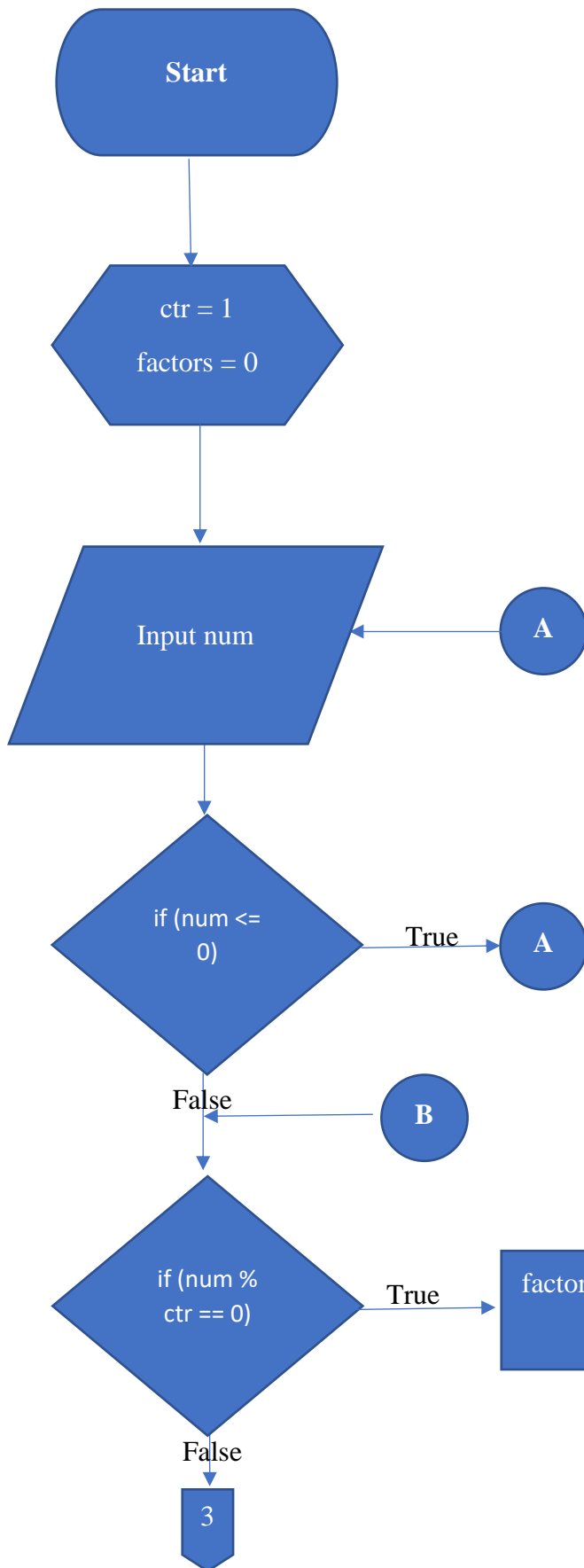
Enter radius: 10

Enter height: 25

Surface Area = 2199

Volume = 7854

Combination Flowchart:



Combination Pseudocode:

Variables used:

num, ctr, factors are numeric.

Begin:

Initialization:

ctr = 1

factors = 0

Input:

Display "INPUT A
NUMBER:"

accept num

Process:

while (num <= 0) do

begin

Display "INVALID
INPUT! TRY
AGAIN."

accept num

end

while (ctr <= num) do

begin

if (num % ctr == 0)
then

begin

factors =
factors + 1

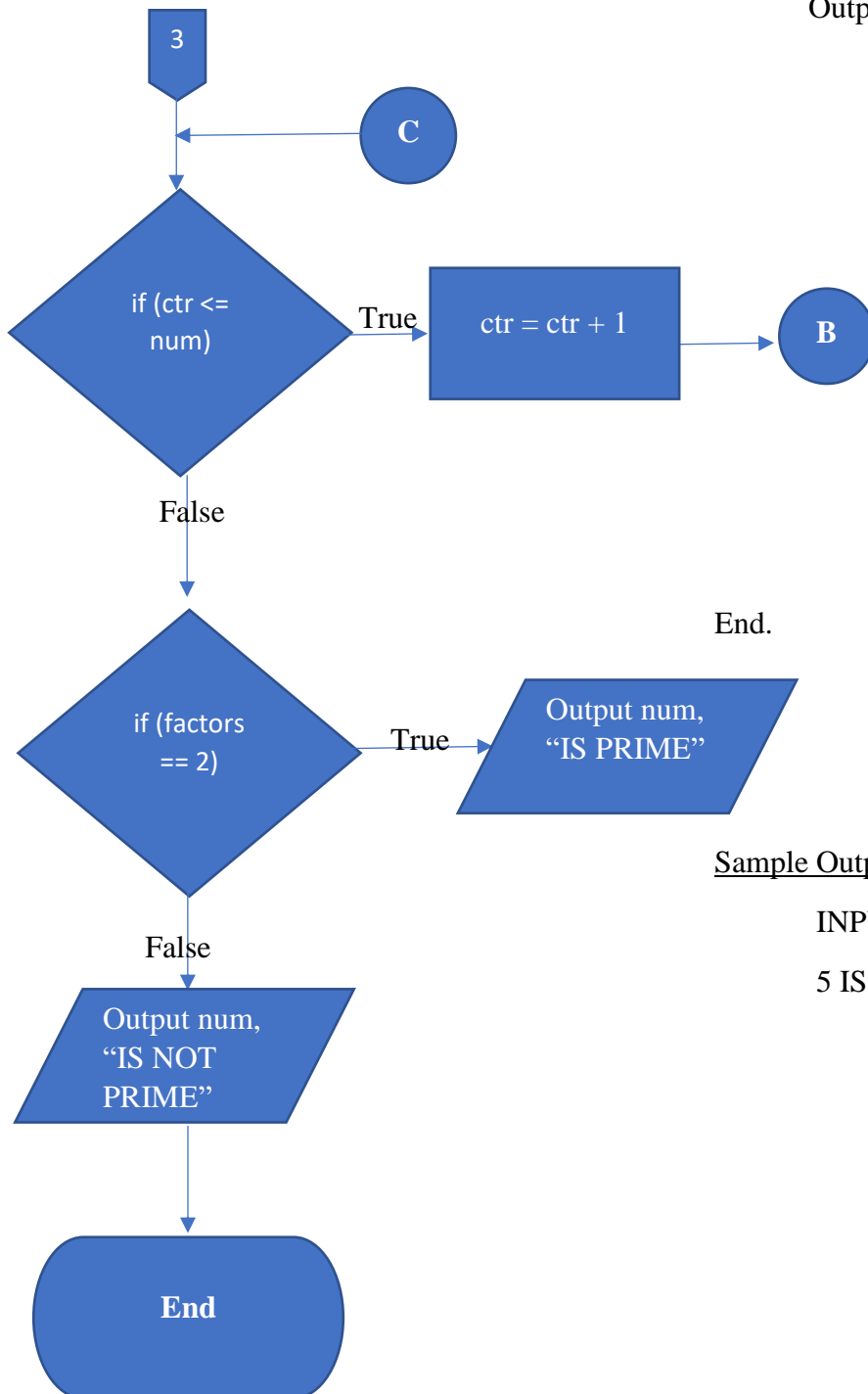
end

ctr = ctr + 1

end

Combination Pseudocode (continued):

Combination Flowchart (continued):



Output:

```
if (factors == 2) then
begin
    display num, "IS
    PRIME"
end.
else
begin
    display num, "IS
    NOT PRIME!"
end.
```

End.

Sample Output:

```
INPUT A NUMBER: 5
5 IS PRIME
```