Pattern Flowchart and Algorithm

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Algorithm

1)Start

2) Initialize integers I,j,row.

3) Scan Input from user int row

4)Repeat step 5 to 10 until condition is true

5) int i=1 and check i<=row

6)Repeat step until condition is true

7) int j=1 and j<=i

8)print(“\*”)

9)j++

10)print(“/n”)

11)i++

12)End

No

yes

No

yes

Print(“\*”)

Print (“/n”)

For(j=1;j<=I;j++)

For(i=1;i<=row;i++)

Get input int row from user

Initialize int i,j,row

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12

123

1234

12345

Algorithm

1)Start

2) Initialize integers I,j,row.

3) Scan Input from user int row

4)Repeat step 5 to 10 until condition is true

5) int i=1 and check i<=row

6)Repeat step until condition is true

7) int j=1 and j<=i

8)print(“j”)

9)j++

10)print(“/n”)

11)i++

12)End

No

yes

Print(j)

Print (“/n”)

For(j=1;j<=I;j++)

For(i=1;i<=row;i++)

Get input int row from user

Initialize int i,j,row

yes

No

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Algorithm

1)Start

2) Initialize integers I,j,row.

3) Scan Input from user int row

4)Repeat step 5 to 10 until condition is true

5) int i=row and check i>=1

6)Repeat step until condition is true

7) int j=1 and j<=i

8)print(“\*”)

9)j++

10)print(“/n”)

11)i++

12)End

No

yes

No

yes

Print(“\*”)

Print (“/n”)

For(j=1 ; j<=I ; j++)

Get input int row from user

Initialize int i,j,row

For(i=row ; i>=1 ; i--)

4) 12345

1234

123

12

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Algorithm

1)Start

2) Initialize integers I,j,row.

3) Scan Input from user int row

4)Repeat step 5 to 10 until condition is true

5) int i=row and check i>=1

6)Repeat step until condition is true

7) int j=1 and j<=i

8)print(“j”)

9)j++

10)print(“/n”)

11)i++

12)End

No

yes

No

yes

Print(j)

Print (“/n”)

For(j=1 ; j<=I ; j++)

Get input int row from user

Initialize int i,j,row

For(i=row ; i>=1 ; i--)

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Algorithm

1)Start

2) Initialize integers I,j,row,a,k.

3) Scan Input from user int row

4)a=row

5)Repeat step 6 to 16 until condition is true

6) int i=1 and check i<=row

7)Repeat step 8 to 14 until condition is true

8) int j=1 and j<=a-1

9)print(“ ”)

10)Repeat step until 11 to 12 condition is true

11)int k=1 and k<=2\*i-1

12)Print(“\*”)

13)k++

14)j++

15)print(“/n”)

16)m++

17)i++

18)End

No

yes

No

yes

Print(“ ”)

For(j=1;j<=a-1;j++)

For(i=1;i<=row;i++)

Get input int row from user, a=row

Initialize int i,j,row,k,a

For(k=1;k<=2\*i-1;k++)

No

yes

Print (“/n”),

m++

Print(“\*”)

1. \*\*\*\*\*

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Algorithm

1)Start

2) Initialize integers I,j,row,a,k.

3) Scan Input from user int row

4)a=1

5)Repeat step 6 to 16 until condition is true

6) int i=row and check i>=1

7)Repeat step 8 to 14 until condition is true

8) int j=1 and j<=a

9)print(“ ”)

10)Repeat step until 11 to 12 condition is true

11)int k=1 and k<=2\*i-1

12)Print(“\*”)

13)k++

14)j++

15)print(“/n”)

16)m++

17)i++

18)End

yes

No

yes

Print(“ ”)

For(j=1;j<=a;j++)

For(i=row; i>=0 ;i--)

Get input int row from user,

Initialize int i,j,row,k,a=1

No

For(k=1;k<=2\*i-1;k++)

No

yes

Print (“/n”),

m++

Print(“\*”)