Introduction to Flowcharts

With Sanket Singh

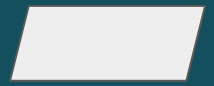
Let’s crack Competitive Programming together!

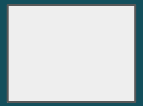
Sanket Singh

- Software Development Engineer @ **LinkedIn**
- Former Software Developer @ **Interviewbit/Scaler**
- Former Product Engineer @ **Coding Blocks**
- Cracked **Google** Summer Of Code 2019 under **Harvard University**
- Offers From **Linkedin, Sprinklr, Dunzo, Works Application(Singapore), Interviewbit, Grofers, Splash Learn**
- **No. 1** Educator in Unacademy Competitive Programming Track
- Former Research Intern @ **ISRO (Indian Space Research Organisation)**
- Taught 7,500+ programmers in Data Structures, Algorithms and Fundamentals of Computer Science
- Got **Rank 1** in Codechef Long Challenges
- Won **Infosys** Digital Make-a-thon

1. Which shape is used to give a start instruction to the computer in flowcharts?

A. Oval shaped box 

B. Parallelogram box 

C. Square box 

D. Triangle 

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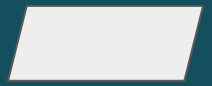
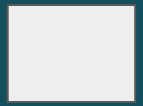
B. Parallelogram box 

C. Square box 

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Refer to any flowchart:
we use oval shape for
start and end instruction

2.Which shape is used to give an input and output instruction to the computer in flowcharts?

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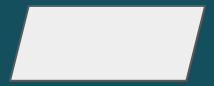
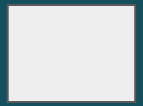
B. Parallelogram box 
C. Square box 
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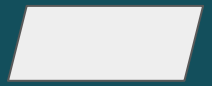
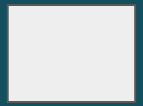
B. Parallelogram box 

C. Square box 

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Refer to flowcharts we use parallelogram shape for input and output instruction

3. Which shape is used to give a processing instruction to the computer in flowcharts?

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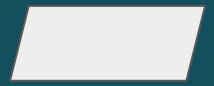
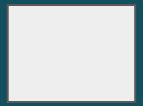
B. Parallelogram box 
C. Square box 
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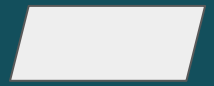
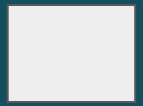
B. Parallelogram box 

C. Square box 

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Refer to flowcharts we use square shape for processing the instruction

4. Which of the following is not a valid variable name?

A. abc
B. abc1
C. 1abc
D. a1bc

4. Which of the following is not a valid variable name?

A. abc
B. abc1
C. 1abc
D. a1bc

Variable name must start with any alphabetic character or with __

5. Let temp and Temp be any two variable names. Are both variable names the same?

A. True
B. False

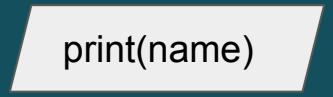
5. Let temp and Temp be any two variable names. Are both variable names the same?

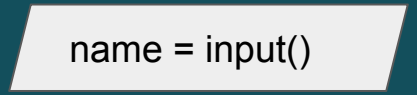
A. Yes

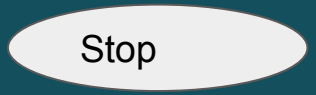
B. No

Variable name are case sensitive

6. Let A = 

, B = 

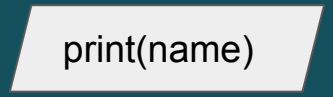
, C = 

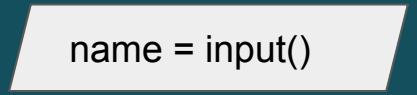
D = 

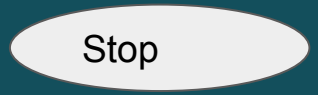
which of the following is the correct order for printing the variable “name” in flowcharts?

A. A->C->B->D
B. A->B->C->D
C. A->C->D->B
D. D->B->C->A

6. Let A = 

, B = 

, C = 

D = 

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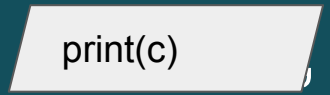
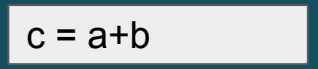
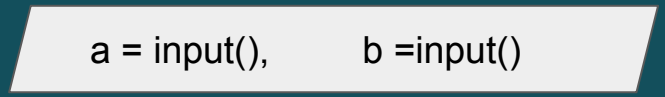
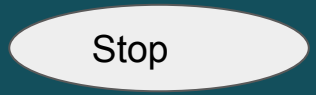
Refer to flowcharts

7. Let A = 

, B = 

, C = 

D = 

, E = 

which of the following is the correct order for adding two numbers a and b in flowcharts? (a and b taken as input)

A. A->C->B->D->E
B. A->B->E->C->D
C. A->D->C->B->E
D. D->B->C->A->E

7. Let A = Start, B = print(c), C = c = a+b
D = a = input(), b =input(), E = Stop which of the following is the correct order for adding two numbers a and b in flowcharts? (a and b taken as input)

Refer to flow chart

A. A->C->B->D->E
B. A->B->E->C->D
C. A->D->C->B->E
D. D->B->C->A->E

8. Let A = “3” and B = 3 be two variables. Are A and B equal?

A. Yes
B. No

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A. Yes

B. No

Both A and B of different type, A is string type and B is integer type

9. What is the meaning of the statement “a = b” (assignment operator) in programming languages?

A. The value of a and b is the same
B. Returns true if a and b are same, false otherwise
C. Sets the value of variable a to be equal to b.
D. Sets the value of variable b to be equal to a.

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10. Suppose x and y are two variables with the value 2 and 3. What happens to their values when the following three statements are executed?

```
x = x + y
y = x - y
x = x - y
```

A. x = 2, y = 3
B. x = 5, y = 2
C. x = 3, y = 2
D. x = -1, y = 2

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A. x = 2, y = 3
B. x = 5, y = 2
C. x = 3, y = 2
D. x = -1, y = 2

After the first statement, x = 5, y = 3
After the second, x = 5, y = 2
After the third x = 3, y = 2