



“चला तर, Coding
शिकू आपल्या भाषेत!”



Marathi Coding Shala

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Fibonacci series of a number:

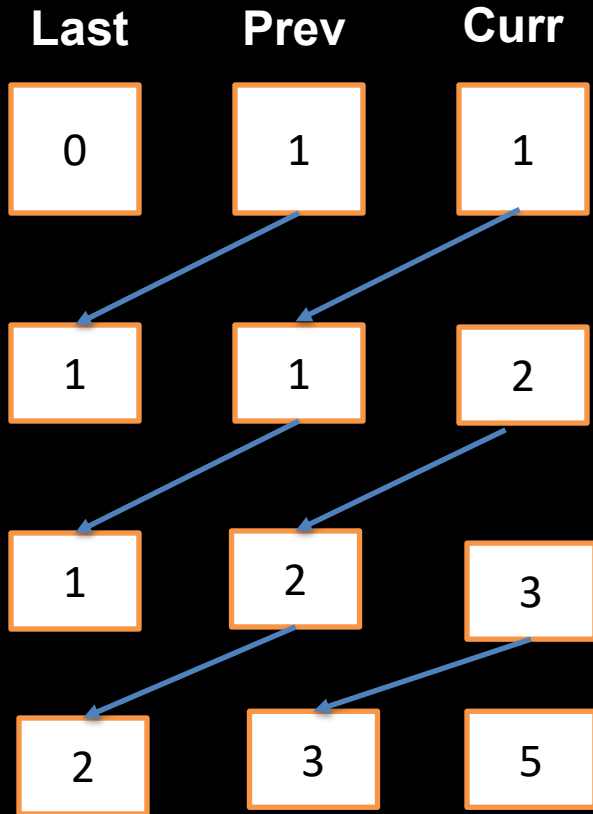
fibonacci

0, 1, 1, 2, 3, 5, 8, 13, 21, 34

+

A diagram illustrating the Fibonacci sequence generation. Two blue arrows point from the first two numbers of the sequence, '0' and '1', to a white circle with an orange border containing a plus sign '+'. This indicates that the next number in the sequence is the sum of the two preceding numbers.

Logic



Curr = Prev + Last;
Last=Prev
Prev=Curr

◆ Difference Between break and continue in C

Feature / Point	break	continue
काम (Purpose)	पूर्ण loop थांबवतो (terminate करतो)	चालू iteration skip करून पुढच्या iteration ला जातो
प्रभाव (Effect)	loop मधून ताबडतोब बाहेर पडतो	loop चालू ठेवतो पण current cycle skip करतो
Use case (कधी वापरतात)	जेव्हा आपल्याला loop मधून पूर्णपणे बाहेर यायचं असेल	जेव्हा specific condition मध्ये iteration skip करून पुढच्या iteration वर जायचं असेल
Loop नंतरचं code execute होतं का?	होय (loop संपला म्हणून)	नाही, कारण पुढच्या iteration ला जातो
उदाहरण	number divisible आढळला की break वापरून loop संपवतो (prime check मध्ये)	even numbers skip करून फक्त odd numbers print करायचे असतील तेव्हा

◆ Example: break

1 2 3 4

```
pp / ...  
#include <stdio.h>  
int main() {  
    for (int i = 1; i <= 10; i++) {  
        if (i == 5) {  
            break; // loop इथेच थांबेल  
        }  
        printf("%d ", i);  
    }  
    return 0;  
}
```

◆ Example: continue

```
#include <stdio.h>
int main() {
    for (int i = 1; i <= 10; i++) {
        if (i == 5) {
            continue; // 5 skip होईल
        }
        printf("%d ", i);
    }
    return 0;
}
```


👉 सोप्या भाषेत:

- `break` → **loop** मधून बाहेर
- `continue` → **loop** चालू ठेव पण **current step skip** कर

prime numbers in a given range

Enter the start of the range: 10

Enter the end of the range: 30

Prime numbers between 10 and 30 are: 11 13 17 19
23 29

```
#include <stdio.h>
```

```
int main() {  
    int s, e;  
  
    printf("Enter a First Range: ");  
    scanf("%d", &s);  
  
    printf("Enter a Second Range: ");  
    scanf("%d", &e);  
  
    for (int i = s; i <= e; i++) {  
        if (i < 2)  
            continue;    // numbers <2 skip केले  
  
        int j;  
        for (j = 2; j <= i - 1; j++) {    // i-1 पर्यंत divide check  
            if (i % j == 0) {  
                break;    // divisible -> not prime  
            }  
        }  
  
        if (j == i)    // जर कुठेही break झाला नाही तर prime  
            printf("%d ", i);  
    }  
  
    return 0;  
}
```




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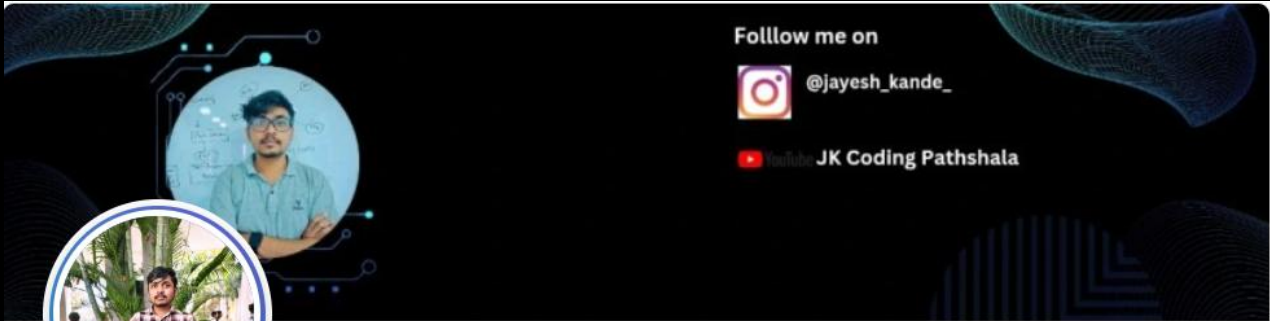
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