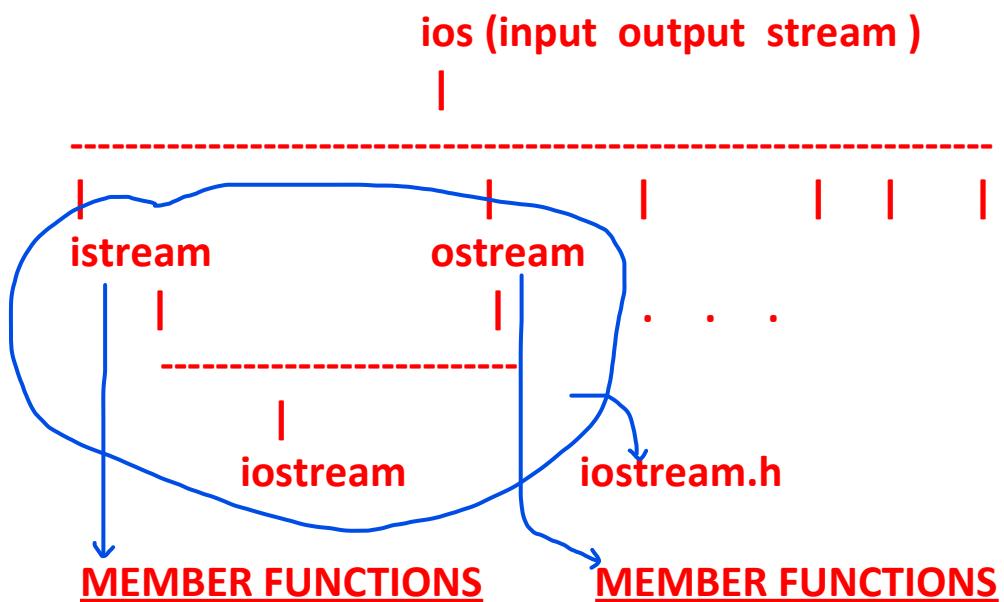


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## I/O ( INPUT / OUTPUT )



**get()**

**put()**

**getline()**

**write()**

.

.

**cin (predefined object)**

**cout ( predefined object )**

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A) **UNFORMATTED I / O**



1. << ( INSERTION OPERATOR )



2. >> ( EXTRACTION OPERATOR )

3. **get() :- // INPUT SINGLE CHARACTER**

**syntax**

**variable = cin . get ();**

4. **put() :- // PRINT SINGLE CHARACTER**

**Syntax**

**cout . put( variable)**

5. **getline(): - // INPUT SPECIAL CHARACTER**

**syntax**

**cin . getline ( variable , size);**

6. **write(): - // print special character**

**syntax**

**cout . write ( variable, size);**

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### // INPUT AND PRINT SINGLE CHARACTER

```
#include<iostream>
using namespace std;

int main()
{
    char ch;

    cout<< " ENTER CHARACTER = " << endl;
    ch = cin . get(); // A

    cout . put(ch); // A
```

### // INPUT AND PRINT SPECIAL CHARACTERS

```
#include <iostream.h>
#include<conio.h>
int main()
{
    char ch[80];

    cout<< " ENTER NAME = " << endl;
    cin . getline (ch,30); // raj kumar // gets(ch);
    cout. write (ch,30); // raj kumar // puts(ch);

    cout . write ( ch , 5 ); // raj k
```

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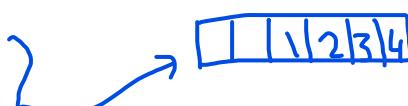
## B) FORMATTED I/O

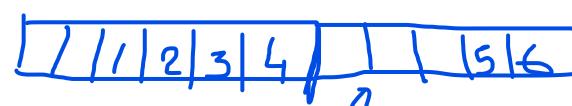
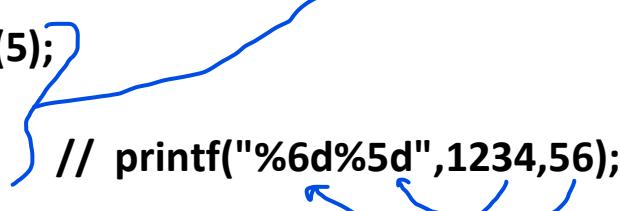
### 1. width() :- // RIGHT JUSTIFIED

syntax

`cout . width ( size );`

E.G.

1. `cout . width(6);` }   
`cout << 1234;`  // `printf("%6d",1234);`

2. `cout. width(6);` }   
`cout << 1234;` }  
  
`cout. width(5);` }   
`cout << 56;`  // `printf("%6d%5d",1234,56);`

3. `cout.width(3);` }   
`cout << 12345;`  // `printf("%3d",12345);`

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## 2. precision() :-

**syntax**

```
cout . fill('*');  
cout . precision( size);
```

↳ 6 Default +

## 3. fill():

**syntax**

```
cout.fill(character);
```

---

e.g. cout.width(8);

```
cout.precision(2);
```

cout.fill('\*')



```
cout << 12.16412; // printf("%*8.2f", 12.16412);
```

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**cout << 15.1356 ; // 15.14**

**cout << sqrt(3) ; // 1.73**

**cout << 12.20004; // 12.2**

---

**imp**

---

**cout.width(3);**

**cout << 12345 ; // printf("%3d",12345);**

**ans :- 12345**

---

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