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## stringstream in C++ and its applications

A stringstream associates a string object with a stream allowing you to read from the string as if it were a stream (like cin).

Basic methods are –

*clear()* – to clear the stream

*str()* – to get and set string object whose content is present in stream.

*operator <<* – add a string to the stringstream object.

*operator >>* – read something from the stringstream object,

stringstream class is extremely useful in parsing input.

### Applications :

#### 1. Count number of words in a string

Examples:

Input : Asipu Pawan Kumar

Output : 3

Input : Geeks For Geeks Ide

Output : 4

```
// CPP program to count words in a string
// using stringstream.
#include <bits/stdc++.h>
using namespace std;

int countWords(string str)
```

```

{
    // breaking input into word using string stream
    stringstream s(str); // Used for breaking words
    string word; // to store individual words

    int count = 0;
    while (s >> word)
        count++;
    return count;
}

// Driver code
int main()
{
    string s = "geeks for geeks geeks "
               "contribution placements";
    cout << " Number of words are: " << countWords(s);
    return 0;
}

```

Output:

Number of words are: 6

## 2. Print frequencies of individual words in a string

Input : Geeks For Geeks Quiz Geeks Quiz Practice Practice

Output : For -> 1  
           Geeks -> 3  
           Practice -> 2  
           Quiz -> 2

Input : Word String Frequency String

Output : Frequency -> 1  
           String -> 2  
           Word -> 1

```

// CPP program to demonstrate use of stringstream
// to count frequencies of words.
#include <bits/stdc++.h>
using namespace std;

void printFrequency(string st)
{
    // each word is mapped to its frequency
    map<string, int> FW;
    stringstream ss(st); // Used for breaking words
    string Word; // To store individual words

    while (ss >> Word)
        FW[Word]++;

    map<string, int>::iterator m;
    for (m = FW.begin(); m != FW.end(); m++)

```

```
        cout << m->first << " -> "
            << m->second << "\n";
    }

    // Driver code
    int main()
    {
        string s = "Geeks For Geeks Ide";
        printFrequency(s);
        return 0;
    }
```

Output:

```
For -> 1
Geeks -> 2
Ide -> 1
```

### 3. Removing spaces from a string using Stringstream

### 4. Converting Strings to Numbers in C/C++

This article is contributed by **ASIPU PAWAN KUMAR**. If you like GeeksforGeeks and would like to contribute, you can also write an article using [contribute.geeksforgeeks.org](https://www.geeksforgeeks.org/contribute/) or mail your article to [contribute@geeksforgeeks.org](mailto:contribute@geeksforgeeks.org). See your article appearing on the GeeksforGeeks main page and help other Geeks.

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