Strings

1. String Length

#include <iostream> using namespace std;

int strLength(string str)

{

int length = 0;

for(int i=0; str[i] != '\0'; i++)

{

length ++;

}

cout << "The Length of String is : " << length << endl;

}

int main()

{

string str;

cout << "Enter a String : "; getline(cin, str);

strLength(str);

return 0;

}

1. String Lower

#include <iostream> using namespace std;

void strLower(string str)

{

int i = 0; string str2;

while(str[i] != '\0')

{

if(str[i] >= 'A' && str[i] <= 'Z')

{

}

else

{

} i++;

}

str2 += str[i] + 32;

str2 += str[i];

str2[i] = '\0';

cout << "String in Lower Case : " << str2 << endl;

}

int main()

{

string str;

cout << "Enter a String : "; getline(cin, str);

strLower(str);

return 0;

}

1. String UPPER

#include <iostream> using namespace std;

void strUpper(string str)

{

int i = 0; string str2;

while(str[i] != '\0')

{

if(str[i] >= 'a' && str[i] <= 'z')

{

}

else

{

} i++;

}

str2 += str[i] - 32;

str2 += str[i];

str2 += '\0';

cout << "String in Upper Case : " << str2 << endl;

}

int main()

{

string str;

cout << "Enter a String : "; getline(cin, str);

strUpper(str);

return 0;

}

1. String Compare

#include <iostream> using namespace std;

void strCompare(string s1, string s2)

{

int i = 0; int flag = 0;

if (s1.length() != s2.length())

{

cout << "Both Strings are not the same" << endl; return;

}

while (i < s1.length())

{

if (s1[i] != s2[i])

{

} i++;

}

cout << "Both Strings are not the same"; flag = 1;

break;

if (flag == 0)

{

cout << "Both the Strings are the same";

}

}

int main()

{

string s1, s2;

cout << "Enter a String : "; getline(cin, s1);

cout << "Enter a String : "; getline(cin, s2);

strCompare(s1, s2);

return 0;

}

1. String Copy

#include <iostream> using namespace std;

void strCopy(string str1, string str2)

{

int i = 0; while(str1[i] != '\0')

{

str1[i] = str2[i]; i++;

}

str1[i] = '\0';

cout << "Copied String is " << str1 << endl;

}

int main()

{

string str1, str2;

cout << "Enter First String : "; cin >> str1;

cout << "Enter Second String : "; cin >> str2;

strCopy(str1, str2);

return 0;

}

1. String Append / Concate

#include <iostream> using namespace std;

void strAppend(string s1, string s2, string s3)

{

int i = 0, j = 0 , k = 0; while(s1[i] != '\0')

{

s3 += s1[i]; i++;

k++;

}

while(s2[j] != '\0')

{

s3 += s2[j]; j++;

k++;

}

s3[k] += '\0';

cout << "String After Appending : " << s3 << endl;

}

int main()

{

string s1, s2, s3;

cout << "Enter First String : "; cin >> s1;

cout << "Enter Second String : "; cin >> s2;

strAppend(s1, s2, s3);

return 0;

}

1. String Reverse

#include <iostream> using namespace std; void reverse(string str)

{

int start = 0;

int end = str.length() - 1;

while(start < end)

{

char temp = str[start]; str[start] = str[end]; str[end] = temp;

start ++; end--;

}

cout << "Reversed String : " << str << endl;

}

int main()

{

string str;

cout << "Enter a String : "; getline(cin, str);

reverse(str);

return 0;

}

1. String SUB-STRING

#include <iostream> using namespace std;

void subStr(string str, int sp, int n)

{

string newStr; int length = 0; sp++;

while(n > 0)

{

newStr += str[sp]; length++;

sp++; n--;

}

newStr[length] += '\0';

cout << "Sub - String : " << newStr << endl;

}

int main()

{

string str; int n, sp;

cout << "Enter a String : "; getline(cin, str);

cout << "Enter the Starting Position : "; cin >> sp;

cout << "Enter the Number of Characters : "; cin >> n;

subStr(str, sp, n); return 0;

}

1. String Insertion

#include <iostream> using namespace std;

void strInsert(string str, string text, int position)

{

int i = 0; string temp;

while(i < position)

{

temp = temp + str[i]; i++;

}

temp += text;

while(str[i] != '\0')

{

temp += str[i]; i++;

}

cout << "After Insertion, New String is : " << temp << endl;

}

int main()

{

string str, text; int position;

cout << "Enter a String : "; getline(cin, str);

cout << "Enter a text You Want to Insert in String : "; cin >> text;

cout << "Enter the Position From where you want to insert the text : ";

cin >> position; strInsert(str, text, position);

return 0;

}

1. String Deletion

#include <iostream> using namespace std;

void strDelete(string str, int pos, int n)

{

int i = 0; int j = 0; string s2;

while(i < pos)

{

s2 += str[i]; i++;

j++;

}

while(n > 0)

{

i++; n--;

}

while(str[i] != '\0')

{

s2 += str[i]; j++;

i++;

}

s2 += '\0';

cout << "After Deletion New String Will Be : " << s2 << endl;

}

int main()

{

string str; int pos, n;

cout << "Enter a String : "; getline(cin, str);

cout << "Enter a Position : "; cin >> pos;

cout << "Enter the Number of Characters You Want to Delete :

";

cin >> n; strDelete(str, pos, n);

return 0;

}