# CS Bridge Module 10 Strings

# 1. Strings

1.1 CS Bridge: Strings



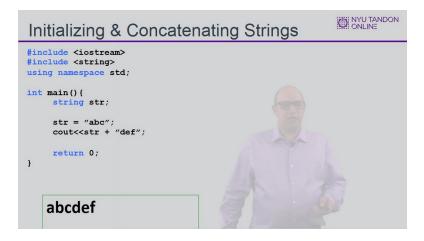
**Notes:** 

#### 1.2 Introduction



**Notes:** 

### 1.3 Initializing Strings



**Notes:** 

#### 1.4 Reading Strings

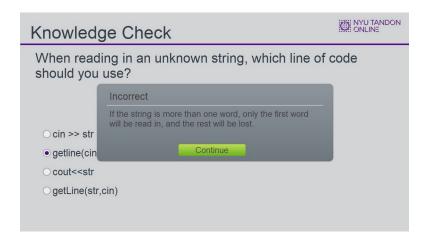
## 1.5 Knowledge Check

(Multiple Choice, 10 points, 1 attempt permitted)

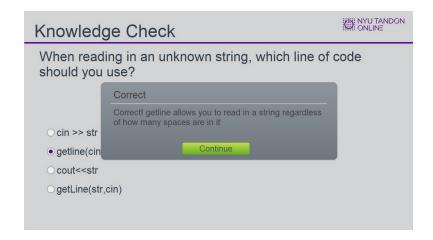
Knowledge Check	NYU TANDON ONLINE
When reading in an unknown string, which list should you use?	ine of code
cin >> str getline(cin, str) cout< <str getline(str,cin)<="" td=""><td></td></str>	

Correct	Choice	Feedback
	cin >> str	If the string is more than one word, only the first word will be read in, and the rest will be lost.
Х	getline(cin, str)	Correct! getline allows you to read in a string regardless of how many spaces are in it
	cout< <str< td=""><td>Not quite! cout is how to print a string, not how to read in a string!</td></str<>	Not quite! cout is how to print a string, not how to read in a string!
	getLine(str,cin)	This is not a valid function call. Note that the names of standard C++ functions are all in lowercase.

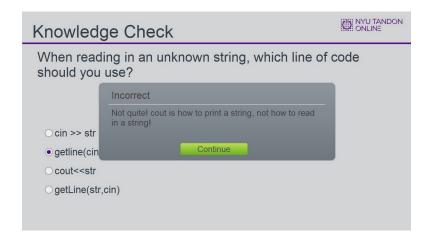
#### cin >> str (Slide Layer)



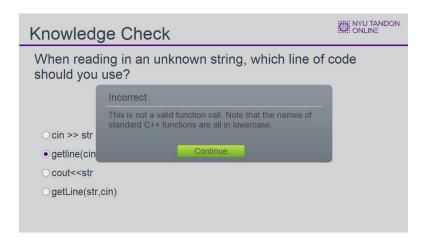
### getline(cin, str) (Slide Layer)



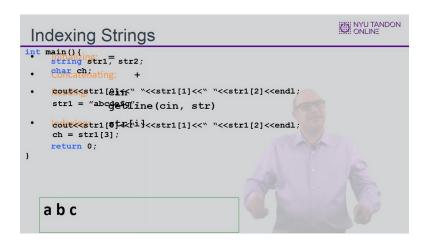
#### cout<<str (Slide Layer)



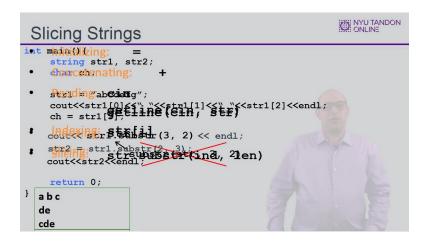
#### getLine(str,cin) (Slide Layer)



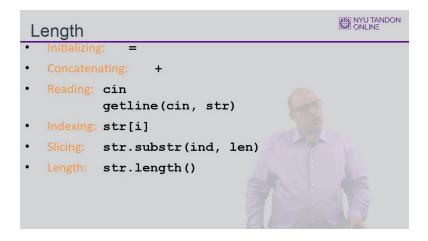
#### 1.6 Indexing Strings



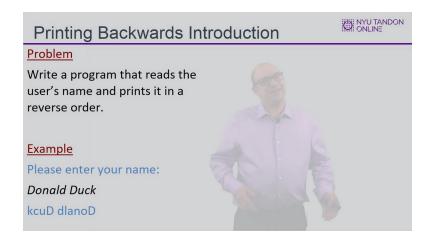
#### 1.7 Slicing Strings



### 1.8 Length



### 1.9 Printing Backwards Introduction



# 1.10 Printing Backwards Implementation

### 1.11 Comparing Strings

```
Comparing Strings & Lexicographical Order

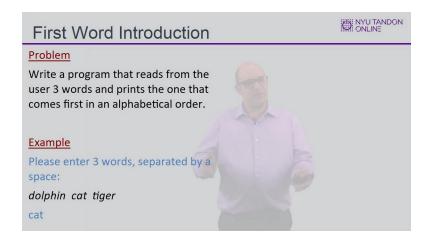
Int main () = string str1, str2;

Int (stri) = string (cin, str)

| cout < strict in (cin, str)
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```

**Notes:** 

#### 1.12 First Word Introduction



#### 1.13 First Word Walkthrough

#### 1.14 Searching in a String

```
Searching in a String

int main() :=
    string str = "abcdbcdefg";

Concatenating: +
    cout<<str.find("de") << endl;

Reading(str.fifhd("xyz") == string::npos )
    cougethine(Ging) < trial;

Indeling: cout<</li>
    Sliccout<<str.fishlb'stif(ind, len)</li>
    Length: str.length()
    return 0;
    comparing: ==,!=,<,>,<=,>=
    Searching: str.find(s)
    Not found
    2
```

## 1.15 Starting Index

```
Searching in a String from Starting Index

int main()(zing = "abcdbcdefg";

cout<str.find("de")<<endl;

if (str.find(%ip!) = string::npos)
    cout<<"Not getl!inte(din, str)

else

irout<<"Fought: substr(ind, len)
    cout<str.find("cd", 3);

cout<str.find("cd", 3);

tength: str.length()

return 0;

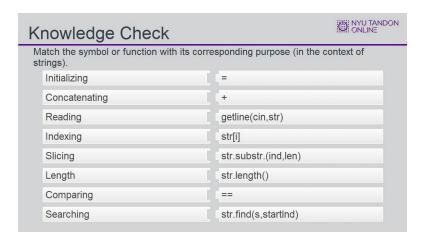
comparing: ==,!=,<,>,<=,>=

Not found: str.find(s)

str.find(s, startInd)
```

# 1.16 Knowledge Check

(Matching Drag-and-Drop, 10 points, unlimited attempts permitted)

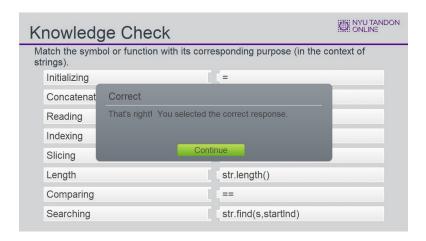


Correct	Choice
Initializing	=
Concatenating	+
Reading	getline(cin,str)
Indexing	str[i]
Slicing	str.substr.(ind,len)
Length	str.length()
Comparing	==
Searching	str.find(s,startInd)

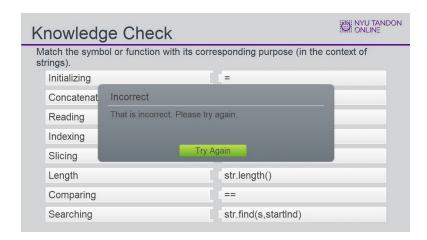
#### Feedback when correct:

That's right! You selected the correct response.

#### **Correct (Slide Layer)**



Try Again (Slide Layer)



## 1.17 End of Module

