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STRING	ົກ		
	extring > character arrays		
# compare with character array			
Character	Strings		
Arrays			
. Need to know size	· No need to know size		
beforehand	beforehand		
· Larger size required for	· Performing operations like		
operations (concatenate	concatenation & append is		
or append).	easier.		
· No terminating extra	· Terminated with a special		
character	character "10"		
# Required header			
To required range			
#include < string>	#include < string> // have to use namespace std		
using namespace std;	I use this to avoid namespace error or use 'std::string'		
# Declaration			
(4-7)			
string str = This is string	string str = "This is string"; string str (5, 'N'); // NNNNN		
string stro(str); // m	ake copy of str in strl		
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#	Input output
	cin >> str; // this will input only first word
	getline (cin, str) // this will input one sentence
	cout << str << end);
	LOGI COMAL,
#	Different Function of String
1.	Append: str. append ("some string") str = str + "some string"
	str += "some string"
	Time (emplexity = O(N) N= size of new string
2,	assign :- str. assign ("new string") str = 66 new string"
3.	at :- str.at(INDEX) str[INDEX]
	Time complexity = $O(1)$
4.	begin: Returns iterator pointing to first character
1.0	Time complexity = $O(L)$
	auto i = str. begin () // data type: iterator
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11.	find: - str. find ("string") returns of returns of returns first occurrence of the in the string otherwise returns Time complexity = O(N); N= size	parameter very large value
12.	insert: stringert (position, string) insert 'string' to 'position' in 'str Time complexity = O(N); N = size o	frow string
13.	length: - str. length() returns size of st	ring O(L)
Μ.	resize: resize to small or bigger longth str. resize (esize) Time complexity = $O(N)$; $N = size$	of now string
<u> </u> 5.	Gize: - str. size() returns size of str Time complexity = 0(1)	\sim
16.	substr: - string s = str. substr (position, length) returns substring of length 'length' 'position' Time complexity = O(N); N is size	
17.	stoi :- int oc = stoi(str) returns string converted to 'int)
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NOTE:	
1. to-string () :- convert int to string	
string str = to-string (x)	
2. Sorting a string:	
& header file required: <algorithm></algorithm>	
and the results of the second	
* function to use: sort()	
sort (begin-iterator, end-iterator)	
code:	
string 3 = "HITESH";	
string s = "HITESH"; sort (s. begin(), s.end());	
cout < c < ccendl; 1/ EHHIST	
Teacher's Signature :	