Next Greater on the Right in C++

```
#include <iostream>
#include <stack>
using namespace std;
long* nextLargerElement(long* arr, int n)
  long* ans = new long[n];
  stack<int> st;
  for(int i = 0; i < n; i++){
     while(!st.empty() && arr[i] > arr[st.top()]){
       int idx = st.top();
       st.pop();
       ans[idx] = arr[i];
     st.push(i);
  while(!st.empty()){
     int idx = st.top();
     st.pop();
     ans[idx] = -1;
  return ans;
}
int main() {
  long arr[] = \{4, 8, 5, 2, 25\};
  int n = sizeof(arr) / sizeof(arr[0]);
  long* result = nextLargerElement(arr, n);
  cout << "Resulting array:" << endl;</pre>
  for (int i = 0; i < n; i++) {
     cout << result[i] << " ";
  cout << endl;
  delete[] result; // Free dynamically allocated
memory
  return 0;
```

Input:

```
arr = \{4, 8, 5, 2, 25\}

n = 5
```

lterative Dry Run Table:

i	arr[i]	Stack (indices)		Condition Checked	Action Taken	
0	4				Push index 0	[-, -, -, -, -]
1	8	[0]	4	$8 > 4 \rightarrow$ true	Pop 0, set ans[0] = 8, push 1	[8, -, -,
2	5	[1]	8	$5 > 8 \rightarrow$ false	iPiign z	[8, -, -, -, -]
3	2	[1, 2]	5	$2 > 5 \rightarrow$ false	Push 3	[8, -, -, -, -, -, -]
4	25	[1, 2, 3]	2	$25 > 2 \rightarrow$ true	เฉกราสา	[8, -, -, 25, -]
		[1, 2]	5	$25 > 5 \rightarrow$ true		[8, -, 25, 25, -]
		[1]	8	$25 > 8 \rightarrow$ true		[8, 25, 25, 25, -]
		0		_	Push 4	[8, 25, 25, 25, -]
	_	[4]	25	Loop ends	Pop 4, set ans[4] = -1	[8, 25, 25, 25, -1]

∜ Final Output:

Resulting array: 8 25 25 25 -1

Resulting array: 8 25 25 25 -1