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| **Subsequence in C++** | |
| #include <iostream>  #include <string>  using namespace std;  void sol(string q, string a) {      if (q.length() == 0) {          cout << a << "-" << endl;          return;      }      char ch = q[0];      string rest = q.substr(1);      sol(rest, a);      sol(rest, a + ch);  }  int main() {      string s = "abc";      sol(s, "");      return 0;  } | **Execution Tree:**  We'll denote:   * q = remaining string * a = answer so far  | **Call #** | **q** | **a** | **Output if base case** | | --- | --- | --- | --- | | 1 | abc | "" |  | | 2 | bc | "" |  | | 3 | c | "" |  | | 4 | "" | "" | - | | 5 | "" | "c" | c- | | 6 | bc | "b" |  | | 7 | c | "b" |  | | 8 | "" | "b" | b- | | 9 | "" | "bc" | bc- | | 10 | abc | "a" |  | | 11 | bc | "a" |  | | 12 | c | "a" |  | | 13 | "" | "a" | a- | | 14 | "" | "ac" | ac- | | 15 | bc | "ab" |  | | 16 | c | "ab" |  | | 17 | "" | "ab" | ab- | | 18 | "" | "abc" | abc- |   **✅ Final Output (Subsequences with -):**  -  c-  b-  bc-  a-  ac-  ab-  abc- |
| Output:- -  c-  b-  bc-  a-  ac-  ab-  abc- | |