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| **Word Break in C++** | |
| #include <iostream>  #include <unordered\_set>  #include <string>  using namespace std;  void wordBreak(string str, string ans, unordered\_set<string>& dict) {      if (str.length() == 0) {          cout << ans << endl;          return;      }        for (int i = 0; i < str.length(); i++) {          string left = str.substr(0, i + 1);          if (dict.find(left) != dict.end()) {              string right = str.substr(i + 1);              wordBreak(right, ans + left + " ", dict);          }      }  }  int main() {      int n = 5;      unordered\_set<string> dict = {"microsoft", "hiring", "at", "kolkata"};      string sentence = "microsofthiring";      wordBreak(sentence, "", dict);      return 0;  } | Dry Run Table:  | **Call** | **str** | **ans** | **Loop i** | **left = str.substr(0, i+1)** | **left in dict?** | **Action Taken** | | --- | --- | --- | --- | --- | --- | --- | | 1 | microsofthiring | "" | 0 | m | ❌ | skip | | 1 | microsofthiring | "" | 1 | mi | ❌ | skip | | 1 | microsofthiring | "" | 2 | mic | ❌ | skip | | 1 | microsofthiring | "" | 3 | micr | ❌ | skip | | 1 | microsofthiring | "" | 4 | micro | ❌ | skip | | 1 | microsofthiring | "" | 5 | micros | ❌ | skip | | 1 | microsofthiring | "" | 6 | microso | ❌ | skip | | 1 | microsofthiring | "" | 7 | microsof | ❌ | skip | | 1 | microsofthiring | "" | 8 | microsoft | ✅ | Recurse with str=hiring, ans=microsoft | | 2 | hiring | microsoft | 0 | h | ❌ | skip | | 2 | hiring | microsoft | 1 | hi | ❌ | skip | | 2 | hiring | microsoft | 2 | hir | ❌ | skip | | 2 | hiring | microsoft | 3 | hiri | ❌ | skip | | 2 | hiring | microsoft | 4 | hirin | ❌ | skip | | 2 | hiring | microsoft | 5 | hiring | ✅ | Recurse with str="", ans=microsoft hiring | | 3 | "" | microsoft hiring | - | — | — | Print: microsoft hiring |  ✅ Final Output: microsoft hiring |
| Output:-  microsoft hiring | |