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| **Rotate Array in C++** | |
| #include <iostream>  using namespace std;  void rotate(int arr[], int d, int n) {  int temp[d];  for (int i = 0; i < d; i++) {  temp[i] = arr[i];  }  for (int i = d; i < n; i++) {  arr[i - d] = arr[i];  }  for (int i = 0; i < d; i++) {  arr[n - d + i] = temp[i];  }  for (int i = 0; i < n; i++) {  cout << " " << arr[i];  }  cout << endl;  }  int main() {  int arr[] = {1, 3, 6, 2, 5, 4, 3, 2, 4};  int n = sizeof(arr) / sizeof(arr[0]);  rotate(arr, 5, n);  return 0;  } | ****Input:**** arr[] = {1, 3, 6, 2, 5, 4, 3, 2, 4}  d = 5  n = 9 🔁 ****Step-by-step Breakdown:****1. ****Store first**** d ****elements in**** temp temp = {1, 3, 6, 2, 5}   | **i** | **temp[i]** | | --- | --- | | 0 | 1 | | 1 | 3 | | 2 | 6 | | 3 | 2 | | 4 | 5 |  2. ****Shift remaining**** n - d ****elements to the left**** arr[0] = arr[5] → 4  arr[1] = arr[6] → 3  arr[2] = arr[7] → 2  arr[3] = arr[8] → 4   | **i** | **arr[i] (after shift)** | | --- | --- | | 0 | 4 | | 1 | 3 | | 2 | 2 | | 3 | 4 |  3. ****Copy**** temp ****back to the end**** arr[4] = temp[0] = 1  arr[5] = temp[1] = 3  arr[6] = temp[2] = 6  arr[7] = temp[3] = 2  arr[8] = temp[4] = 5   | **i** | **arr[i] (final state)** | | --- | --- | | 4 | 1 | | 5 | 3 | | 6 | 6 | | 7 | 2 | | 8 | 5 |  🧾 Final Output: 4 3 2 4 1 3 6 2 5 |
| 4 3 2 4 1 3 6 2 5 | |