How to permute all element in the array?

[intro]

next\_permutation

There is a func in <algorithm> - next\_permutation

[namespace]

std

[ref]

<https://cplusplus.com/reference/algorithm/next_permutation/>

[library]

<algorithm>

[code] [result]

#include <iostream>

#include <algorithm>

using namespace std;

int main ()

{

int myints[] = {1,2,3};

int n=sizeof(myints)/sizeof(myints[0]);

int idx=1;

sort(myints,myints+n);

cout << "The possible permutations:"<<endl;

do

{

cout<<"---------"<<endl;

cout<<"the "<<idx<<" th solution:"<<endl;

for(int i=0;i<n;i++)

{

cout<<myints[i];

}

cout<<endl;

cout<<"---------"<<endl;

idx++;

} while ( std::next\_permutation(myints,myints+n) );

cout << "After loop: "<<endl';

cout<<"The array is:"<<endl;

cout<<"the "<<idx<<" th solution:"<<endl;

for(int i=0;i<n;i++)

{

cout<<myints[i];

}

cout<<endl;

return 0;

}

The possible permutations:

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the 1 th solution:

123

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the 2 th solution:

132

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the 3 th solution:

213

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the 4 th solution:

231

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the 5 th solution:

312

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the 6 th solution:

321

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After loop: 1 2 3