```
У продавця морозива є декілька видів морозива і декілька видів топінгу до
    Допоможіть продавцеві скласти повне меню.
#include <iostream>
#include <string>
using namespace std;
int power(int end)
    int pow = 1;
    for (int i = 0; i < end; i++)
        pow *= 2;
    return pow;
int main()
    int iceCreamAmount, topingsAmount, topingsCombinationsAmount;
    cout << "Input ice-cream amount: ";</pre>
    cin >> iceCreamAmount;
    cout << "Input topings amount: ";</pre>
    cin >> topingsAmount;
    topingsCombinationsAmount = power(topingsAmount);
    string *iceCream = new string[iceCreamAmount];
    string *topings = new string[topingsAmount];
    string *topingsCombinations = new string[topingsCombinationsAmount];
    cin.ignore();
    for (int i = 0; i < iceCreamAmount; i++)</pre>
        cout << "Input ice-cream article: ";</pre>
        getline(cin, iceCream[i]);
    for (int i = 0; i < topingsAmount; i++)</pre>
        cout << "Input toping article: ";</pre>
        getline(cin, topings[i]);
```

```
for (int i = 0; i < topingsCombinationsAmount; i++) {
    string currentCombination = "";
    for (int j = 0; j < topingsAmount; j++) {
        if ((i >> j) & 1) {
            currentCombination += (topings[j] + " ");
        }
    }
    topingsCombinations[i] = currentCombination;
}

cout << "Menu: " << endl;
for (int iceCreamArticle = 0; iceCreamArticle < iceCreamAmount; iceCreamArticle++)
    {
        for (int topingComBination = 0; topingComBination <
        topingsCombinationsAmount; topingComBination++)
        {
            cout << iceCream[iceCreamArticle] << " : " <<
        topingsCombinations[topingComBination] << endl;
        }
    }
}</pre>
```

```
Input ice-cream amount: 1
Input topings amount: 3
Input ice-cream article: Vanil
Input toping article: Caramel
Input toping article: Nuts
Input toping article: Chocolate
Menu:
Vanil :
Vanil : Caramel
Vanil : Nuts
Vanil : Caramel Nuts
Vanil : Chocolate
Vanil : Caramel Chocolate
Vanil : Caramel Chocolate
Vanil : Nuts Chocolate
Vanil : Caramel Nuts Chocolate
```

Input ice-cream amount: 2
Input topings amount: 2

Input ice-cream article: Vanil
Input ice-cream article: Chocolate

Input toping article: Nuts
Input toping article: Chips

Menu: Vanil :

Vanil : Nuts Vanil : Chips Vanil : Nuts Chips

Chocolate:

Chocolate : Nuts Chocolate : Chips Chocolate : Nuts Chips

Input ice-cream amount: 1
Input topings amount: 4

Input ice-cream article: Vanil
Input toping article: Nuts
Input toping article: Chocolate
Input toping article: Chips
Input toping article: Caramel

Menu: Vanil :

Vanil : Nuts

Vanil : Chocolate

Vanil : Nuts Chocolate

Vanil : Chips Vanil : Nuts Chips Vanil : Chocolate Chips

Vanil : Nuts Chocolate Chips

Vanil : Caramel

Vanil : Nuts Caramel
Vanil : Chocolate Caramel
Vanil : Nuts Chocolate Caramel

Vanil : Chips Caramel

Vanil : Nuts Chips Caramel

Vanil : Chocolate Chips Caramel

Vanil : Nuts Chocolate Chips Caramel