//Ex.9

#include <iostream>

using namespace std;

int main()

{

setlocale(0, "rus");

cout << " Создать массив строк на 4000 элементов. Заполнить его римскими числами от 1 до\n";

cout << " 3999, показать на экране все элементы.\n\n";

const int k = 4000;

int ar[k] = {};

int thousand = 0;

int hundred = 0;

int ten = 0;

int unit = 0;

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

{

if (i + 1 == k) break;

ar[i] = i + 1;

}

for (int i = 0; i < k - 1; i++)

{

thousand = ar[i] / 1000;

hundred = ar[i] / 100 % 10;

ten = ar[i] / 10 % 10;

unit = ar[i] % 10;

switch (thousand)

{

case 1:cout << "M";

break;

case 2:cout << "MM";

break;

case 3:cout << "MMM";

break;

case 0:cout << "";

break;

}

switch (hundred)

{

case 1:cout << "C";

break;

case 2:cout << "CC";

break;

case 3:cout << "CCC";

break;

case 4:cout << "CD";

break;

case 5:cout << "D";

break;

case 6:cout << "DC";

break;

case 7:cout << "DCC";

break;

case 8:cout << "DCCC";

break;

case 9:cout << "CM";

break;

case 0:cout << "";

break;

}

switch (ten)

{

case 1:cout << "X";

break;

case 2:cout << "XX";

break;

case 3:cout << "XXX";

break;

case 4:cout << "XL";

break;

case 5:cout << "L";

break;

case 6:cout << "LX";

break;

case 7:cout << "LXX";

break;

case 8:cout << "LXXX";

break;

case 9:cout << "XC";

break;

case 0:cout << "";

break;

}

switch (unit)

{

case 1:cout << "I";

break;

case 2:cout << "II";

break;

case 3:cout << "III";

break;

case 4:cout << "IV";

break;

case 5:cout << "V";

break;

case 6:cout << "VI";

break;

case 7:cout << "VII";

break;

case 8:cout << "VIII";

break;

case 9:cout << "IX";

break;

case 0:cout << "";

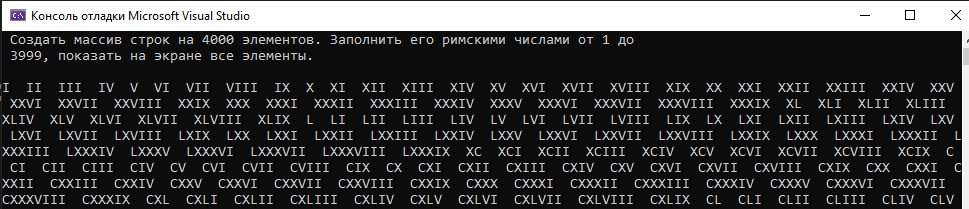
break;

}

cout << " ";

}

}



И т д.

//Ex.10

#include <iostream>

using namespace std;

int main()

{

setlocale(0, "rus");

cout << " Ввести число в диапазоне от 0 до 1000000. Озвучить его словами.\n\n";

int n;

cout << " Введите число: ";

cin >> n;

int first = n / 100000;

int second = n / 10000 % 10;

int third = n / 1000 % 10;

int fourth = n / 100 % 10;

int fifth = n / 10 % 10;

int sixth = n % 10;

const int k = 6;

int ar[k] = {};

int sum = 0;

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

{

switch (i)

{

case 0:

ar[i] = first;

break;

case 1:

ar[i] = second;

break;

case 2:

ar[i] = third;

break;

case 3:

ar[i] = fourth;

break;

case 4:

ar[i] = fifth;

break;

case 5:

ar[i] = sixth;

break;

}

sum += ar[i];

}

/\*for (int i = 0; i < k; i++)

{

cout << ar[i] << " ";

}\*/

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

{

if (sum == 0)

{

cout << " ноль ";

break;

}

if (i == 0 || i == 3)

{

switch (ar[i])

{

case 1:

cout << " сто "; break;

case 2:

cout << " двести "; break;

case 3:

cout << " триста "; break;

case 4:

cout << " четыреста "; break;

case 5:

cout << " пятьсот "; break;

case 6:

cout << " шестьсот "; break;

case 7:

cout << " семьсот "; break;

case 8:

cout << " восемьсот "; break;

case 9:

cout << " девятьсот "; break;

case 0:

cout << ""; break;

}

if (i == 0 && ar[i] > 0 && i == 0 && ar[i + 1] == 0 && i == 0 && ar[i + 2] == 0) cout << " тысяч ";

}

if (i == 1 || i == 4)

{

switch (ar[i])

{

case 1:

switch(ar[i + 1])

{

case 1:

cout << " одиннадцать "; break;

case 2:

cout << " двенадцать "; break;

case 3:

cout << " тринадцать "; break;

case 4:

cout << " четырнадцать "; break;

case 5:

cout << " пятнадцать "; break;

case 6:

cout << " шестнадцать "; break;

case 7:

cout << " семнадцать "; break;

case 8:

cout << " восемнадцать "; break;

case 9:

cout << " девятнадцать "; break;

case 0:

cout << " десять "; break;

}

if (i == 1 && ar[i] != 0) cout << " тысяч ";

else cout << "";

break;

case 2:

cout << " двадцать "; break;

case 3:

cout << " тридцать "; break;

case 4:

cout << " сорок "; break;

case 5:

cout << " пятьдесят "; break;

case 6:

cout << " шестьдесят "; break;

case 7:

cout << " семьдесят "; break;

case 8:

cout << " восемьдесят "; break;

case 9:

cout << " девяносто "; break;

case 0:

cout << ""; break;

}

if (i == 1 && ar[i + 1] == 0 && ar[1] > 0) cout << " тысяч ";

else cout << "";

}

if ((i == 2 && ar[i - 1] == 0 && (i == 2 && ar[i - 2] == 0)) ||

(i == 2 && ar[i - 1] > 1) || ((i == 2 && ar[i - 2] > 0) && (i == 2 && ar[i - 1] == 0))

|| ((i == 2 && ar[i - 2] > 0) && (i == 2 && ar[i - 1] > 1)))

{

switch (ar[i])

{

case 1:

cout << " однa тысяча "; break;

case 2:

cout << " две тысячи "; break;

case 3:

cout << " три тысячи"; break;

case 4:

cout << " четыре тысячи"; break;

case 5:

cout << " пять "; break;

case 6:

cout << " шесть "; break;

case 7:

cout << " семь "; break;

case 8:

cout << " восемь "; break;

case 9:

cout << " девять "; break;

case 0:

cout << ""; break;

}

if (ar[i] > 4) cout << " тысяч ";

}

if (((i == 5 && ar[i - 1] == 0) && (i == 5 && ar[i - 2] == 0)) || i == 5 && ar[i - 1] > 1 ||

((i == 5 && ar[i - 1] == 0) && (i == 5 && ar[i - 2] >= 1)))

{

switch (ar[i])

{

case 1:

cout << " один "; break;

case 2:

cout << " два "; break;

case 3:

cout << " три "; break;

case 4:

cout << " четыре"; break;

case 5:

cout << " пять "; break;

case 6:

cout << " шесть "; break;

case 7:

cout << " семь "; break;

case 8:

cout << " восемь "; break;

case 9:

cout << " девять "; break;

case 0:

cout << ""; break;

}

}

}

cout << "\n";

}