**Useful acquaintances**

On vacation, Vasya did not waste time, but made new acquaintances. He met other cool programmers who were vacationing at the same hotel with him and wrote down their emails.

There are many entries in his diary like <name>: <email>.

To search for records faster, he decided to make a dictionary in which, by the first two letters of the name, you can find all the records of email addresses from his diary.

Example: key: Sа -> value: {sasha1995@sasha.ru, alex99@mail.ru, shurik2020@google.com}

Vasya has already written the GetContacts function that reads his scribbles from a notebook. Help him do the rest!

private static Dictionary<string, List<string>> OptimizeContacts(List<string> contacts)

{

var dictionary = new Dictionary<string, List<string>>();

return dictionary;

}

**Code:**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace umop6o4UsefulAcquaintances

{

class Program

{

static void Main(string[] args)

{

List<string> contacts =new List <string> { "Ваня:ivan@grozniy.ru", "Ваня:v@mail.ru",

"Ваня:vanechka@domain.com", "Вася:vasiliy@gmail.com", "Саша:a@lex.ru", "Саша:alex@nd.ru",

"Саша:alexandr@yandex.ru", "Саша:sasha1995@sasha.ru", "Паша:p@p.ru",

"Паша:pavel.egorov@urfu.ru"};

OptimizeContacts(contacts);

Console.ReadKey();

}

private static Dictionary<string, List<string>> OptimizeContacts(List<string> contacts)

{

var dictionary = new Dictionary<string, List<string>>();

foreach (var e in contacts)

{

var nameEmail = e.Split(':');

var key = e.Substring(0, Math.Min(2, nameEmail[0].Length));

if (!dictionary.ContainsKey(key))

{

dictionary[key] = new List<string>();

}

dictionary[key].Add(e);

}

return dictionary;

}

}

}