using System;

using System.Collections.Generic;

using System.Text;

class MagicWords

{

static void Main()

{

int numberOfWords = int.Parse(Console.ReadLine());

List<string> magicWords = new List<string>();

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

{

magicWords.Add(Console.ReadLine());

}

List<string> newMagicWords = new List<string>();

int wordLenght = 0;

int postion = 0;

int index = 0;

string item = "";

//reorder

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

{

wordLenght = magicWords[index].Length;

postion = wordLenght % (numberOfWords + 1);

item = magicWords[index];

if (postion >= numberOfWords)

{

postion = postion % numberOfWords;

postion++;

}

else if (postion <= 0)

{

postion = 1;

}

magicWords.RemoveAt(index);

magicWords.Insert(postion-1, item);

index = postion - 1;

index++;

}

//print

StringBuilder str = new StringBuilder();

string bucket = "";

index = 0;

int charIndex = 0;

int bestCharCount = 0;

while (true)

{

bucket = magicWords[index];

int charCount = magicWords[index].Length;

if (charCount > bestCharCount)

{

bestCharCount = charCount;

}

if (charIndex == bestCharCount)

{

break;

}

if (index == numberOfWords)

{

index = 0;

charIndex++;

}

if (charIndex >= magicWords[index].Length)

{

index++;

if (index == numberOfWords)

{

index = 0;

charIndex++;

}

continue;

}

str.Append(bucket[charIndex]);

index++;

if (index == numberOfWords)

{

index = 0;

charIndex++;

}

if (charIndex > magicWords[index].Length)

{

continue;

}

}

Console.WriteLine(str);

}

}