**Problem2**：數字分解**(11%)**

給一個偶數*n*，請你將*n* 分解成兩個質數的和，也就是說，這兩個質數相加的和必須等於*n*。

輸入說明：

第一行的數字，表示有幾組測試資料，第二行開始即為第一筆測試資料，每筆測試資料為一個數字，數字的範圍為[4, 10000]間的偶數。

輸出說明：

對輸入的每筆測試資料，分別輸出 2 個質數，用一個空白做為區隔，請由小到大排列。

輸入範例：

2

12

100

輸出範例：

5 7

3 97

程式碼：

Imports System.IO

Public Class Form1

Dim fr As New FileInfo("in.txt")

Dim fw As New FileInfo("out.txt")

Dim sw As StreamWriter = fw.CreateText

Dim ia, n As Byte

Dim ib, ic(2) As Integer

Private Sub Form1\_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load

If fr.Exists = False Then

End

ElseIf fw.Exists = False Then

fw.Create()

End If

Dim sr As StreamReader = fr.OpenText

ia = sr.ReadLine

For i = 1 To ia

ib = sr.ReadLine

ReDim ic(2) : ic(0) = 2 : n = 1

For j = 3 To ib - 1

For k = 2 To j - 1

If j Mod k = 0 Then Exit For

If k = j - 1 Then ic(n) = j : n += 1 : ReDim Preserve ic(n)

Next

Next

For j = 0 To n - 1 '找出哪兩個質數相加會=ib

For k = 0 To n - 1

If ic(j) + ic(k) = ib And j <> k Then

sw.WriteLine(ic(j) & " " & ic(k)) : GoTo 1

End If

Next

Next

1: Next

sw.Flush() : sw.Close() : End

End Sub

End Class