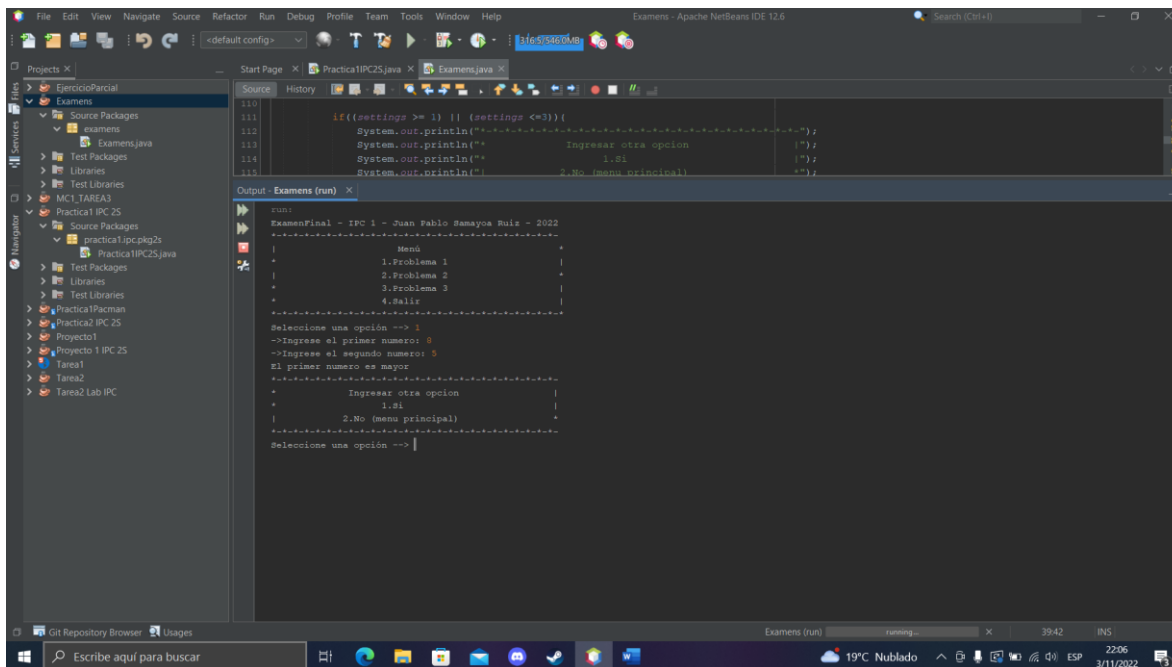


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## Examen Final

### Problema 1



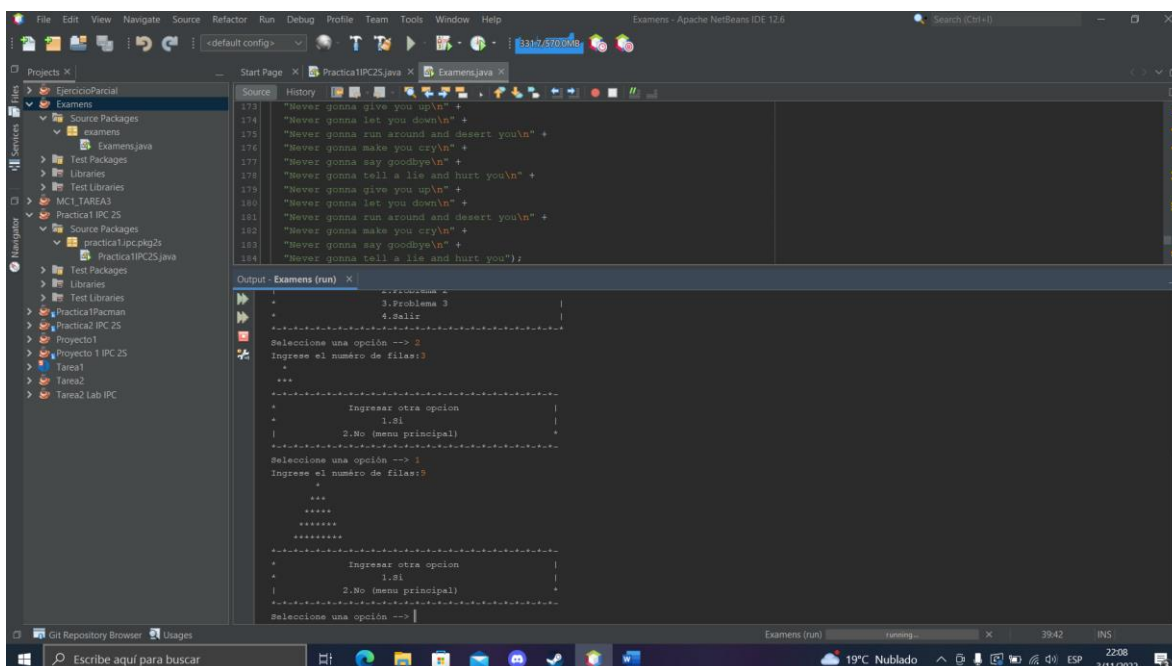
The screenshot shows the NetBeans IDE with the 'ExamenFinal' project. The source code in 'Examen.java' is as follows:

```
110  
111 if((settings >= 1) || (settings <= 3)){  
112     System.out.println("-----");  
113     System.out.println("      Ingresar otra opcion      (*)");  
114     System.out.println("      1.8i      (*)");  
115     System.out.println("      2.No (menu principal)      (*)");  
116 }
```

The output window shows the execution of the program:

```
run:  
ExamenFinal - IPC 1 - Juan Pablo Samayoa Ruiz - 2022  
-----  
      Menu      +  
      +  
      1.Problema 1      +  
      2.Problema 2      +  
      3.Problema 3      +  
      4.Salir      +  
-----  
Selecione una opción --> 1  
->Ingrese el primer numero: 0  
->Ingrese el segundo numero: 0  
El primer numero es mayor  
-----  
      Ingresar otra opcion      +  
      +  
      1.8i      +  
      2.No (menu principal)      +  
-----  
Selecione una opción --> |
```

### Problema 2



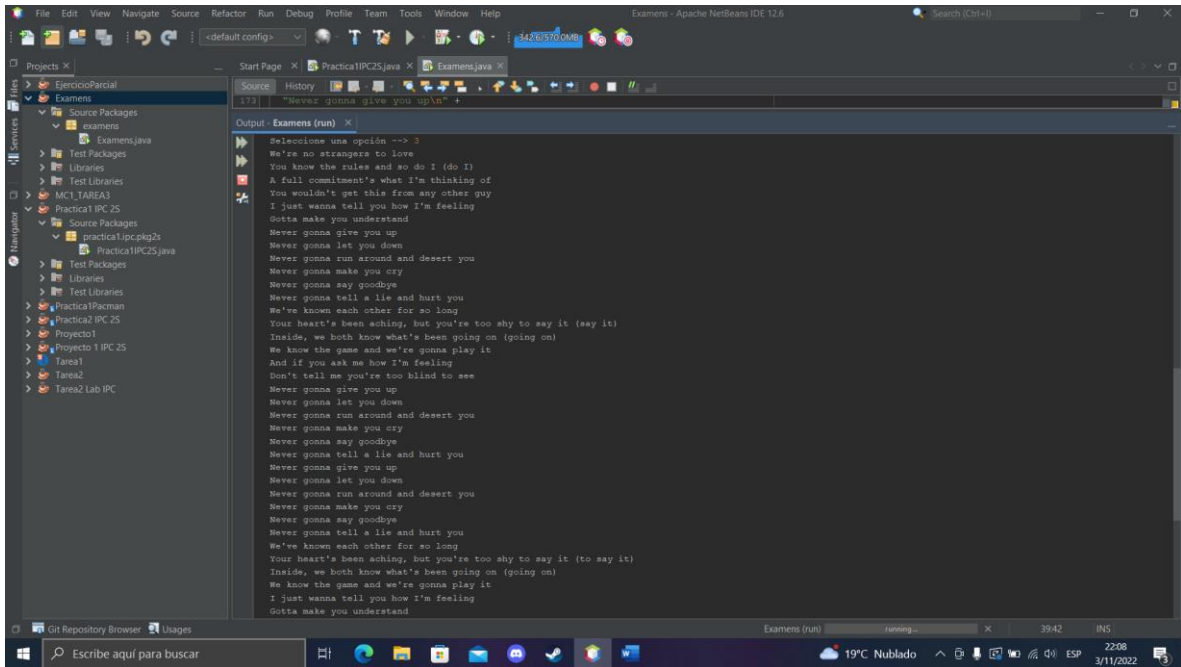
The screenshot shows the NetBeans IDE with the 'ExamenFinal' project. The source code in 'Examen.java' is as follows:

```
173 "Never gonna give you up\n" +  
174 "Never gonna let you down\n" +  
175 "Never gonna run around and desert you\n" +  
176 "Never gonna make you cry\n" +  
177 "Never gonna say goodbye\n" +  
178 "Never gonna tell a lie and hurt you\n" +  
179 "Never gonna give you up\n" +  
180 "Never gonna let you down\n" +  
181 "Never gonna run around and desert you\n" +  
182 "Never gonna make you cry\n" +  
183 "Never gonna say goodbye\n" +  
184 "Never gonna tell a lie and hurt you");
```

The output window shows the execution of the program:

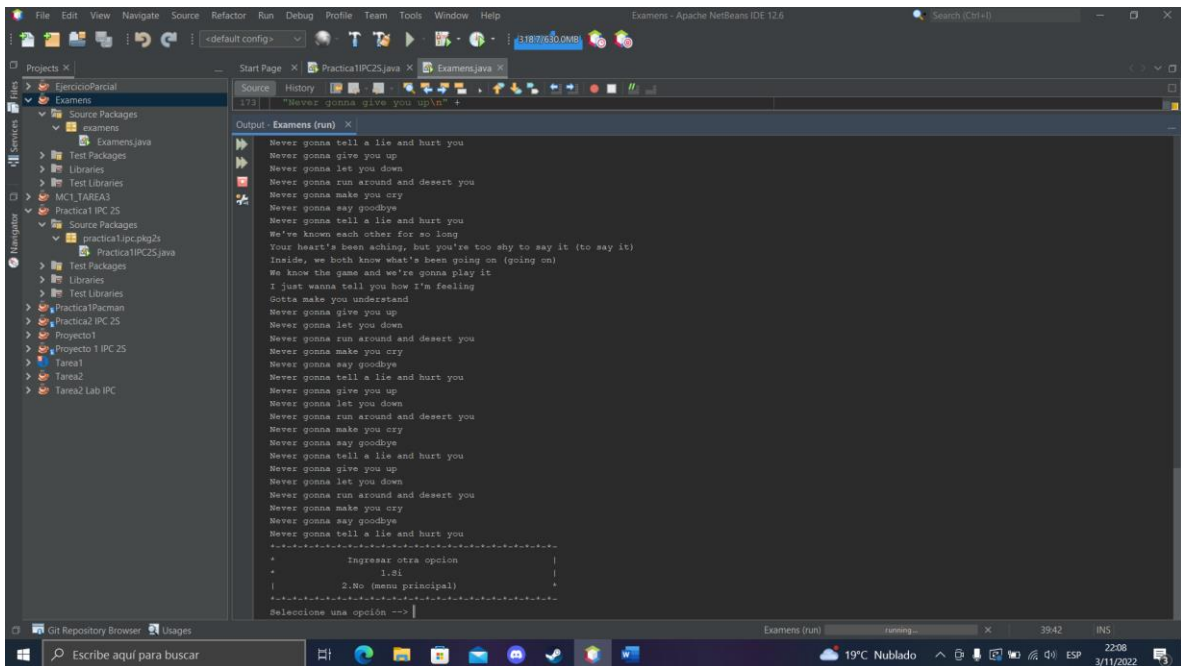
```
run:  
ExamenFinal - IPC 1 - Juan Pablo Samayoa Ruiz - 2022  
-----  
      Menu      +  
      +  
      1.Problema 1      +  
      2.Problema 2      +  
      3.Problema 3      +  
      4.Salir      +  
-----  
Selecione una opción --> 2  
->Ingrese el número de filas:3  
+  
-----  
      Ingresar otra opcion      +  
      +  
      1.8i      +  
      2.No (menu principal)      +  
-----  
Selecione una opción --> 1  
->Ingrese el número de filas:9  
+  
-----  
      Ingresar otra opcion      +  
      +  
      1.8i      +  
      2.No (menu principal)      +  
-----  
Selecione una opción --> |
```

## Problema 3



The screenshot shows the NetBeans IDE interface. The 'Output - Exams (run)' window displays the following text:

```
Seleccione una opción --> ?
We're no strangers to love
You know the rules and so do I (do I)
A full commitment's what I'm thinking of
You wouldn't get this from any other guy
I just wanna tell you how I'm feeling
Gotta make you understand
Never gonna give you up
Never gonna let you down
Never gonna run around and desert you
Never gonna make you cry
Never gonna say goodbye
Never gonna tell a lie and hurt you
We've known each other for so long
Your heart's been aching, but you're too shy to say it (say it)
Inside, we both know what's been going on (going on)
We know the game and we're gonna play it
And if you ask me how I'm feeling
Don't tell me you're too blind to see
Never gonna give you up
Never gonna let you down
Never gonna run around and desert you
Never gonna make you cry
Never gonna say goodbye
Never gonna tell a lie and hurt you
Never gonna give you up
Never gonna let you down
Never gonna run around and desert you
Never gonna make you cry
Never gonna say goodbye
Never gonna tell a lie and hurt you
We've known each other for so long
Your heart's been aching, but you're too shy to say it (to say it)
Inside, we both know what's been going on (going on)
We know the game and we're gonna play it
I just wanna tell you how I'm feeling
Gotta make you understand
```



The screenshot shows the NetBeans IDE interface. The 'Output - Exams (run)' window displays the following text:

```
Never gonna tell a lie and hurt you
Never gonna give you up
Never gonna let you down
Never gonna run around and desert you
Never gonna make you cry
Never gonna say goodbye
Never gonna tell a lie and hurt you
We've known each other for so long
Your heart's been aching, but you're too shy to say it (to say it)
Inside, we both know what's been going on (going on)
We know the game and we're gonna play it
I just wanna tell you how I'm feeling
Gotta make you understand
Never gonna give you up
Never gonna let you down
Never gonna run around and desert you
Never gonna make you cry
Never gonna say goodbye
Never gonna tell a lie and hurt you
Never gonna give you up
Never gonna let you down
Never gonna run around and desert you
Never gonna make you cry
Never gonna say goodbye
Never gonna tell a lie and hurt you
.....
+      Incrementa otra opción      |
+      1.Si                        |
+      2.No (menu principal)      +
.....
Seleccione una opción --> |
```