

CODE:

```
stream=[1,2,3,4,5,6,4,2,5,9,1,6,3,7,1,2,2,4,2,1]
print('Using Flajolet Martin Algorithm:')
import time
start_time = time.time()

maxnum=0
for i in range(0,len(stream)):
    val= bin((1*stream[i] + 6) % 32)[2:]

    sum=0
    for j in range(len(val)-1,0,-1):

        if val[j]=='0':
            sum+=1
        else:
            break
    if sum>maxnum:
        maxnum=sum

print('distinct elements', 2**maxnum)
print("--- %s seconds ---" % (time.time() - start_time))
```

The screenshot shows an online compiler interface with a sidebar on the left containing navigation links: 'Welcome, Anuja Nandilathu', 'Create New Project', 'My Projects', 'Classroom' (with a 'new' badge), 'Learn Programming', 'Programming Questions', and 'Logout'. Below these are social media icons for Facebook and Twitter, and a '+ 177K' badge. The main area displays a Python file named 'main.py' with the same code as shown in the previous block. The code is syntax-highlighted and includes line numbers. At the top of the editor, there are buttons for 'Run', 'Debug', 'Stop', 'Share', 'Save', 'Beautify', and a download icon. Below the code editor, the output console is visible, showing the program's execution: 'Using Flajolet Martin Algorithm:', 'distinct elements 8', and '--- 6.389617919921875e-05 seconds ---'. At the bottom of the console, it states '...Program finished with exit code 0' and 'Press ENTER to exit console.'

```
online compiler and debugger for c/c++
Welcome, Anuja Nandilathu
Create New Project
My Projects
Classroom new
Learn Programming
Programming Questions
Logout
f + 177K
main.py
1 stream=[1,2,3,4,5,6,4,2,5,9,1,6,3,7,1,2,2,4,2,1]
2 print('Using Flajolet Martin Algorithm:')
3 import time
4 start_time = time.time()
5
6 maxnum=0
7 for i in range(0,len(stream)):
8     val= bin((1*stream[i] + 6) % 32)[2:]
9
10     sum=0
11     for j in range(len(val)-1,0,-1):
12
13         if val[j]=='0':
14             sum+=1
15         else:
16             break
17     if sum>maxnum:
18         maxnum=sum
19
20 print('distinct elements', 2**maxnum)
21 print("--- %s seconds ---" % (time.time() - start_time))
Using Flajolet Martin Algorithm:
distinct elements 8
--- 6.389617919921875e-05 seconds ---
...Program finished with exit code 0
Press ENTER to exit console.
```