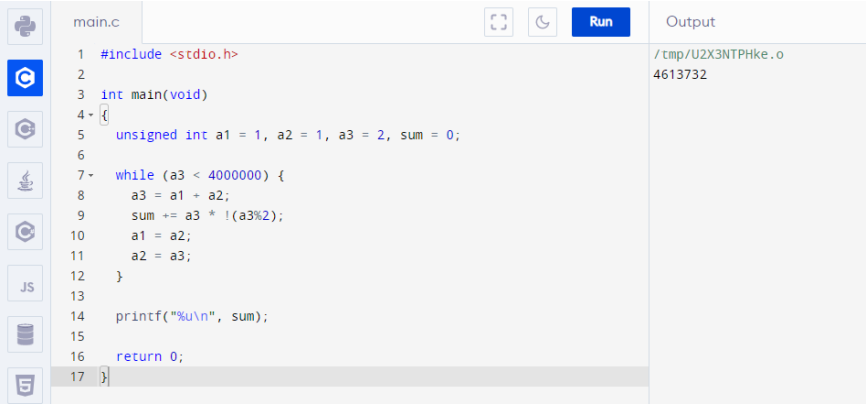
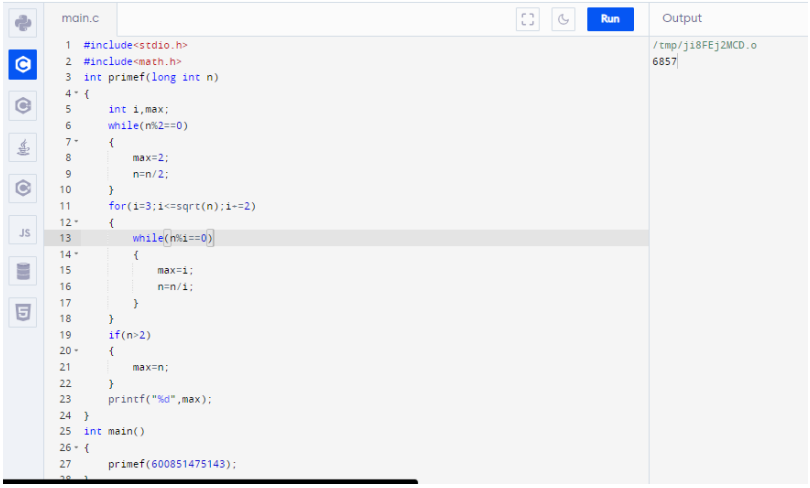
PROBLEM 1: MULTIPLES OF 3 AND 5

PROBLEM 2: EVEN FIBONACCI



PROBLEM 3: LARGEST PRIME FACTOR



PROBLEM 5: SMALLEST MULTIPLE

Main.java

```java
public class Main {

    public static void main(String[] args) {

        int number = -1;

        for (int i = 20; i < Integer.MAX_VALUE; i++) {
            if (i % 20 == 0 && i % 19 == 0 && i % 18 == 0 && i % 17 == 0 && i % 16 == 0 && i % 14 == 0 && i % 13 == 0 && i % 11 == 0) {
                number = i;
                break;
            }
        }

        System.out.println(number);

    }
}
```

Output

```
java -cp /tmp/qi3oADjBjV Main
232792560
```

PROBLEM 6: SUM SQUARE DIFFERENCE

main.py

```python
def sum_square_difference(n):
    numbers = range(1, n+1)
    sum_squares = sum(i**2 for i in numbers)
    square_sum = sum(numbers)**2
    return square_sum - sum_squares

print(sum_square_difference(100))
```

Shell

```
25164150
>
```

PROBLEM 9: SPECIAL PYTHOGOREAN TRIPLET

main.c

```c
#include <stdio.h>

int main(void)
{
  int a, b;

  for (a = 1; a <= 333; a++) {
    for (b = a; b <= 666; b++) {
      int c = (1000 - a - b);
      if (a*a + b*b == c*c) {
        printf("%d\n", a * b * c);
      }
    }
  }
  return 0;
}
```

Output

```
/tmp/U2X3NTPHke.o
31875000
```