# Fibonacci Sequence Calculation

You are tasked with calculating the Fibonacci sequence for a given integer `'n'` within a specified range. The Fibonacci sequence is defined as:

- $F(0)=0F$
- $F(1)=1$
- $F(n)=F(n-1)+F(n-2)$

## Function Descriptions

1. **getNum()**:
   - Reads an integer `'n'` from a file. The file name is provided as input.
   - The file will contain only one integer, `'n'`.
2. **show(n, fib_n)**:
   - Displays the Fibonacci number in the format: `"Fibonacci(n) = F(n)"`.
3. **saveFile(n, fib_n, validity)**:
   - Saves the result to a file named `"result.txt"`.
   - If `n` is within the valid range $0 \leq n \leq 200$, save `"Fibonacci(n) = F(n)"`.
   - If `n` is outside this range, save `"Invalid input!"`.

## Input Format

- A single integer `'n'` is read from a file.
- You must check if the input is valid.

## Output Format

- Print `"Invalid input!"` if `n` is not in the range $0 \leq n \leq 200$.
- If `n` is valid, calculate and display the Fibonacci number in the format: `"Fibonacci(n) = F(n)"`.
- Save the result to `"result.txt"`.

## Constraints

- $0 \leq n \leq 200$
- The output Fibonacci number $F(n) \leq 2^{32}$

## Sample Input

```
3
```

## Sample Output

```
Fibonacci(3) = 2
```

## Explanation

For the given input `n = 3`, the Fibonacci sequence is computed as:

- $F(0) = 0$
- $F(1) = 1$
- $F(2) = 1$
- $F(3) = 2$

Thus, the output is `"Fibonacci(3) = 2"`.