Gamma

Give the best and worst case runtime in $\Theta(.)$ notation as a function of N. Your answer should be simple with no unnecessary leading constants or summations. Assume f(N) returns a random number between 1 and N/2, inclusive, and does so in constant time.

```
static void gamma(int N) {
if (N <= 10) {
    return;
}
for (int i = f(N); i < N; i += f(N)) {
    gamma(i);
}
Best Case: Θ( ), Worst Case: Θ( )</pre>
```