Algorithm 1 Nesterov's Accelerated Gradient Descent

```
1: Input: x_0, f(x), K

2: Initialize: \lambda_1 \leftarrow 1

3: for k = 1 to K do

4: \lambda_{k+1} \leftarrow \frac{1+\sqrt{1+4\lambda_k^2}}{2}

5: Update step for x_k

6: end for
```

See Algorithm 1 for the detailed steps.