```
//The order of APIs in source code does not provide useful information.
   private MessageDigest getDigest(String algo){
       //API sequence makes irrelevant APIs MessageDigest.getInstance(String)
       //and Exception.getMessage() close to each other.
          return MessageDigest.getInstance(algo);
       }catch (NoSuchAlgorithmException e){
          throw new RuntimeException(e.getMessage());
10 }
11
   public byte[] calculate_digest(int mode, String key) {
12
       //Different control flow branches mix together
       byte[] bytes = key.getBytes();
14
       MessageDigest md = null;
15
16
       if mode==0:
           //Line 6 in the getDigest(algo) is invisible
17
           md = getDigest("MD5");//Insecure
       else:
19
           md = getDigest("SHA-256")//Secure
20
21
       return md.digest(bytes);
22 }
```

Figure 1: The source code for Figure 1 in our paper