Summarizer Input

```
if (t.getCreatedAt().getTime() + 1000 < mTime) {
  breakPaging = 'y';
  //TODO
} else {
  userName = t.getFromUser().toLowerCase();
  JUser user = userMap.get(userName);
  if (user == null) {
    user = new JUser(userName).init(t);
    userMap.put(userName, user);
  }
}
```

Step 1: Preprocess comments and literals

```
if (t.getCreatedAt().getTime() + number < mTime) {
  breakPaging = char;
} else {
  userName = t.getFromUser().toLowerCase();
  JUser user = userMap.get(userName);
  if (user == null) {
    user = new JUser(userName).init(t);
    userMap.put(userName, user);
  }
}
```

Step 2: Identify API statements

```
if (t.getCreatedAt().getTime() + number < mTime) {
  breakPaging = char;
} else {
  userName = t.getFromUser().toLowerCase();
  JUser user = userMap.get(userName);
  if (user == null) {
    user = new JUser(userName).init(t);
    userMap.put(userName, user);
  }
}
```

Step 3: Retrieve local scope variables

```
if (t.getCreatedAt().getTime() + number < mTime) {
  breakPaging = char;
} else {
  userName = t.getFromUser().toLowerCase();
  JUser user = userMap.get(userName);
  if (user == null) {
    user = new JUser(userName).init(t);
    userMap.put(userName, user);
  }
}
```

Step 4: Remove non-API statements

```
if (t.getCreatedAt().getTime() + number < mTime) {
} else {
  userName = t.getFromUser().toLowerCase();
}
```

Step 5: Filtering variables

```
if (t.getCreatedAt().getTime() + number < mTime) {
} else {
  userName = t.getFromUser().toLowerCase();
}
```

Step 6: Add declaration statements and comments

```
long mTime;
Tweet t;
String userName;

if (t.getCreatedAt().getTime() + number < mTime) {
  // Do something
} else {
  userName = t.getFromUser().toLowerCase();
  // Do something with userName
}
```