

Jerry already added *array.c* file to the repository. *Tom* also checks out the latest code and starts working.

```
[tom@CentOS ~]$ svn co http://svn.server.com/svn/project_repo --username=tom
```

Above command will produce the following result.

```
A    project_repo/trunk
A    project_repo/trunk/array.c
A    project_repo/branches
A    project_repo/tags
Checked out revision 2.
```

But, he found that someone has already added the code. So he is curious about who did that and he checks the log message to see more details using the following command:

```
[tom@CentOS trunk]$ svn log
```

Above command will produce the following result.

```
------------------------------------------------------------------------
r2 | jerry | 2013-08-17 20:40:43 +0530 (Sat, 17 Aug 2013) | 1 line

Initial commit
------------------------------------------------------------------------
r1 | jerry | 2013-08-04 23:43:08 +0530 (Sun, 04 Aug 2013) | 1 line

Create trunk, branches, tags directory structure
------------------------------------------------------------------------
```

When *Tom* observes *Jerry's* code, he immediately notices a bug in that. Jerry was not checking for array overflow, which could cause serious problems. So Tom decides to fix this problem. After modification, *array.c* will look like this.

```
#include <stdio.h>

#define MAX 16

int main(void)
{
   int i, n, arr[MAX];

   printf("Enter the total number of elements: ");
   scanf("%d", &n);

   /* handle array overflow condition */
   if (n > MAX) {
      fprintf(stderr, "Number of elements must be less than %d\n", MAX);
      return 1;
   }

   printf("Enter the elements\n");

   for (i = 0; i < n; ++i)
      scanf("%d", &arr[i]);

   printf("Array has following elements\n");
   for (i = 0; i < n; ++i)
      printf("|%d| ", arr[i]);
```

```
      printf("\n");

   return 0;
}
```

Tom wants to use the status operation to see the pending change-list.

```
[tom@CentOS trunk]$ svn status
M       array.c
```

array.c file is modified, that's why Subversion shows **M** letter before file name. Next *Tom* compiles and tests his code and it is working fine. Before committing changes, he wants to double-check it by reviewing the changes that he made.

```
[tom@CentOS trunk]$ svn diff
Index: array.c
===================================================================
--- array.c   (revision 2)
+++ array.c   (working copy)
@@ -9,6 +9,11 @@
    printf("Enter the total number of elements: ");
    scanf("%d", &n);

+   if (n > MAX) {
+      fprintf(stderr, "Number of elements must be less than %d\n", MAX);
+      return 1;
+   }
+
    printf("Enter the elements\n");

    for (i = 0; i < n; ++i)
```

Tom has added a few lines in the *array.c* file, that's why Subversion shows **+** sign before new lines. Now he is ready to commit his changes.

```
[tom@CentOS trunk]$ svn commit -m "Fix array overflow problem"
```

The above command will produce the following result.

```
Sending        trunk/array.c
Transmitting file data .
Committed revision 3.
```

Tom's changes are successfully committed to the repository.