Before the first fseek() statement, since rewind() was called, the position should be 0.

After the first fseek() statement, the position of the file marker would be at index 7, then fread() would read the 8th integer, then ftell() would give us 8 * sizeof(int) bytes from the start

The second fseek() moves back 2 integers, so ftell() before fread() would give us 6 * sizeof(int) bytes from the start. Then after fread(), ftell() would show 7 * sizeof(int) bytes from the start.

The third moves the file pointer one integer forwards, so ftell() would show 8 * sizeof(int) bytes from the start before the fread(). Then after fread(), ftell() would show 9 * sizeof(int) bytes from the start.

The fourth fseek() moves the file pointer directly to the 4th integer. ftell() would show 3 * sizeof(int) bytes from the start before fread(). Then after fread(), ftell() would show 4 * sizeof(int) bytes from the start.

Then the last fseek() moves the file pointer 5 integers forwards, so ftell() before fread() would show 9 * sizeof(int) bytes from the start. Then after fread(), ftell() would show 10 * sizeof(int) bytes from the start.

Code and output on next page:

Code:

```c
// Seek to the 8th integer (index 7, since we start counting from 0)
fseek(fd, sizeof(int) * 7, SEEK_SET);
printf("\nCurrent position: %ld\n", ftell(fd));
fread(&data, sizeof(int), 1, fd);
printf("Value read: %d\n", data);
printf("New position: %ld\n", ftell(fd));

// Move back 2 integers from the current position
fseek(fd, (-2) * sizeof(int), SEEK_CUR);
printf("\nCurrent position: %ld\n", ftell(fd));
fread(&data, sizeof(int), 1, fd);
printf("Value read: %d\n", data);
printf("New position: %ld\n", ftell(fd));

// Move forward 1 integer from the current position
fseek(fd, sizeof(int), SEEK_CUR);
printf("\nCurrent position: %ld\n", ftell(fd));
fread(&data, sizeof(int), 1, fd);
printf("Value read: %d\n", data);
printf("New position: %ld\n", ftell(fd));

// Move to the 4th integer from the beginning
fseek(fd, sizeof(int) * 3, SEEK_SET);
printf("\nCurrent position: %ld\n", ftell(fd));
fread(&data, sizeof(int), 1, fd);
printf("Value read: %d\n", data);
printf("New position: %ld\n", ftell(fd));

// Move forward 5 integers from the current position
fseek(fd, sizeof(int) * 5, SEEK_CUR);
printf("\nCurrent position: %ld\n", ftell(fd));
fread(&data, sizeof(int), 1, fd);
printf("Value read: %d\n", data);
printf("New position: %ld\n", ftell(fd));
```

Output:

```
student @ COMP2401 : 20:12:37
~/Desktop/Assignments/A5/output # ./"a5temp"
File values:
5, 8, 12, 24, 41, 56, 77, 78, 80, 91, 93, 128,

Current position: 28
Value read: 78
New position: 32

Current position: 24
Value read: 77
New position: 28

Current position: 32
Value read: 80
New position: 36

Current position: 12
Value read: 24
New position: 16

Current position: 36
Value read: 91
New position: 40
```