

```

1 \cs_set:Npn \my_factorial:n #1 {
2   \int_set:Nn \l_tmpa_int {1}
3   \seq_clear:N \l_tmpa_seq
4   \int_step_inline:nn {#1} {
5     \seq_put_right:Nn \l_tmpa_seq {##1}
6     \int_set:Nn \l_tmpa_int {\l_tmpa_int * ##1}
7   }
8   $\seq_use:Nn \l_tmpa_seq {\times} = \int_use:N \l_tmpa_int$
9 }
10 \par\my_factorial:n {3}
11 \par\my_factorial:n {7}

```

```

1 % generate md5 hash (history) of a file
2 \ior_new:N \g__ztikz_file_ior
3 \seq_new:N \g__ztikz_file_hash_seq
4 \cs_new_protected:Nn \ztikz_file_read_lines_cs:n {
5   \ior_open:Nn \g__ztikz_file_ior {#1}
6   \seq_gclear:N \g__ztikz_file_hash_seq
7   \ior_str_map_inline:Nn \g__ztikz_file_ior
8     {
9       \seq_gput_right:Nx \g__ztikz_file_hash_seq
10      { \tl_trim_spaces:n {##1} }
11    }
12   \ior_close:N \g__ztikz_file_ior
13 }
14 \cs_generate_variant:Nn \ztikz_file_read_lines_cs:n { e }

```

```

1 % generate md5 hash (history) of a file
2 \ior_new:N \g__ztikz_file_ior
3 \seq_new:N \g__ztikz_file_hash_seq
4 \cs_new_protected:Nn \ztikz_file_read_lines_cs:n {
5   \ior_open:Nn \g__ztikz_file_ior {#1}
6   \seq_gclear:N \g__ztikz_file_hash_seq
7   \ior_str_map_inline:Nn \g__ztikz_file_ior
8     {
9       \seq_gput_right:Nx \g__ztikz_file_hash_seq
10      { \tl_trim_spaces:n {##1} }
11    }
12   \ior_close:N \g__ztikz_file_ior
13 }
14 \cs_generate_variant:Nn \ztikz_file_read_lines_cs:n { e }

```