

```
1  #if VERSIONE == 1
2  #include <stdio.h>
3  #include <stdlib.h>
4
5  int main(int argc, char *argv[])
6  {
7      FILE *fin = stdin, *fout = stdout;
8      int n=10;
9      switch(argc) {
10         case 4:
11             n = atoi(argv[3]);
12         case 3:
13             if(argv[2][0]!='-') {
14                 fout = fopen(argv[2], "w");
15                 if(!fout) {
16                     perror(argv[2]);
17                     return(2);
18                 }
19             }
20         case 2:
21             if(argv[1][0]!='-') {
22                 fin = fopen(argv[1], "r");
23                 if(!fin) {
24                     perror(argv[1]);
25                     return(1);
26                 }

```

```
27         }
28         if(argv[1][1]=='v') {
29             fprintf(stderr, "%s VERSIONE=%d\n", argv[0],
30                     VERSIONE);
31             return 0;
32         }
33     case 1:
34         break;
35     default:
36         fprintf(stderr, "uso: %s [input-file [output-file
37             [numero di interi per riga]]\n", argv[0]);
38         return(3);
39     }
40     int tmp, i=n;
41     while(fscanf(fin, "%d", &tmp) == 1) {
42         fprintf(fout, "%d", tmp);
43         if(i==1) {
44             // puts scrive un carattere in un file
45             putchar('\n', fout);
46             i=n;
47         } else {
48             putchar(' ', fout);
49             i--;
50         }
51     }
52     if(i<n) putchar('\n', fout);
```

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```
51     return 0;
52 }
53 #endif /* VERSIONE == 1 */
```

```
54 #if VERSIONE == 2
55 #include <stdio.h>
56
57 int main(int argc, char *argv[])
58 {
59     FILE *fin = stdin, *fout = stdout;
60     switch(argc) {
61         case 3:
62             if(argv[2][0]!='-') {
63                 fout = fopen(argv[2], "w");
64                 if(!fout) {
65                     perror(argv[2]);
66                     return(2);
67                 }
68             }
69         case 2:
70             if(argv[1][0]!='-') {
71                 fin = fopen(argv[1], "r");
72                 if(!fin) {
73                     perror(argv[1]);
74                     return(1);
75                 }
76             }
77             if(argv[1][1]=='v') {
78                 fprintf(stderr, "%s VERSIONE=%d\n", argv[0],
                    VERSIONE);
```

```
79         return 0;
80     }
81     case 1:
82         break;
83     default:
84         fprintf(stderr, "uso: %s [input-file [output-file]]\n",
85             argv[0]);
86         return(3);
87     }
88     char tmp[100];
89     while(fgets(tmp, sizeof(tmp), fin)) {
90         fputs(tmp, fout);
91     }
92     return 0;
93 #endif /* VERSIONE == 2 */
```

```
94  #if VERSIONE == 3
95  #include <stdio.h>
96
97  int main(int argc, char *argv[])
98  {
99      FILE *fin = stdin, *fout = stdout;
100     switch(argc) {
101         case 3:
102             if(argv[2][0]!='-') {
103                 fout = fopen(argv[2], "w");
104                 if(!fout) {
105                     perror(argv[2]);
106                     return(2);
107                 }
108             }
109         case 2:
110             if(argv[1][0]!='-') {
111                 fin = fopen(argv[1], "r");
112                 if(!fin) {
113                     perror(argv[1]);
114                     return(1);
115                 }
116             }
117             if(argv[1][1]=='v') {
118                 fprintf(stderr, "%s VERSIONE=%d\n", argv[0],
                    VERSIONE);
```

```
119         return 0;
120     }
121     case 1:
122         break;
123     default:
124         fprintf(stderr, "uso: %s [input-file [output-file]]\n",
125             argv[0]);
126         return(3);
127     }
128     int tmp;
129     while( (tmp=getc(fin)) >= 0) {
130         putc(tmp, fout);
131     }
132     return 0;
133 }
134 #endif /* VERSIONE == 3 */
```