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Lab 5 Ex. 2b)

Pseudokod:

```
char znak:

FILE *INPUT, *OUTPUT

INPUT  = open data.txt, read
OUTPUT = open result.txt, write

znak: = first char from INPUT
while znak: != EOF do
 begin
  if (znak: == 'a') then
   for (;;)
    write znak: in OUTPUT
    znak: = next char from INPUT
    if (znak: == ' ' or znak: == '\n' or znak: == EOF) then
     if znak: == ' '  then write ' '  in OUTPUT
     if znak: == '\n' then begin new line in OUTPUT
     znak: = next char from INPUT
     break
  if (znak: != 'a' and znak: != '\n' and znak: != EOF) then
   for (;;)
    znak: = next char from INPUT
    if (znak: == ' ' or znak: == '\n' or znak: == EOF) then
     if znak: == '\n' then begin new line in OUTPUT
     znak: = next char from INPUT
     break
  if (znak: == '\n') then
   begin new line in OUTPUT
   znak: = next char from INPUT
 end
close INPUT
close OUTPUT
```

Implementacja w C:

```
#include <stdio.h>
#include <stdlib.h>

int main()
{
 char str;

 FILE *in, *out;
 in  = fopen("data.txt", "r");
 out = fopen("result.txt", "w");

 if(in == NULL)
 {
     printf("Wystapil blad - brak pliku zrodlowego.");
     exit(1);
 }

   str = fgetc(in);
   while (str != EOF) {


       if (str == 'a') {
        for (;;) {
        fprintf(out, "%c", str);
        str = fgetc(in);
        if (str == ' ' || str =='\n' || str == EOF) {
                if (str == ' ') {fprintf(out, " ");}
                if (str == '\n') {fprintf(out, "\n");}
                str = fgetc(in);
                break;
                }
        }
       }
       if (str != 'a' && str != '\n' && str != EOF) {
        for (;;) {
        str = fgetc(in);
        if (str == ' ' || str =='\n' || str == EOF) {
                if (str == '\n') {fprintf(out, "\n");}
                str = fgetc(in);
                break;
                }
        }
       }

        if (str == '\n') {
        fprintf(out, "\n");
        str = fgetc(in);
       }
    }

 fclose(in);
 fclose(out);
 return 0;
}
```