



27^{ος} ΠΑΝΕΛΛΗΝΙΟΣ ΔΙΑΓΩΝΙΣΜΟΣ ΠΛΗΡΟΦΟΡΙΚΗΣ

ΕΝΔΕΙΚΤΙΚΕΣ ΛΥΣΕΙΣ Α΄ ΦΑΣΗΣ

«Το κυλικείο του σχολείου»

PASCAL

ΠΑΛΑΙΟΛΟΓΟΣ ΔΙΑΣ

(εκτός συναγωνισμού Δημ. Σχ. Μυτιλήνης)

```
program ypsos;
var
  board:array [1..1000000] of longint;
  N,max,i,counter:longint;
  infile,outfile:text;
begin
  assign(infile,'xxx.in');
  reset(infile);
  readln(infile,N);
  for i:=1 to N do
    read(infile,board[i]);

  max :=board[N];

  counter:=1;
  for i:=N-1 downto 1 do
    begin
      if board[i]>max then
        begin
          max:=board[i];
          counter:=counter+1;
        end;
    end;
  assign(outfile,'xxx.out');
  rewrite (outfile);
  writeln(outfile,counter);
  close(infile);
  close(outfile);
end.
```



ΑΛΒΕΡΤΟΣ-ΑΘΑΝΑΣΙΟΣ ΖΑΦΕΤ C ΕΕΙ-ΚΟΛΛΕΓΙΟ ΨΥΧΙΚΟΥ

```
#include<stdio.h>
#include<stdlib.h>
int main()
{
    FILE *fd;
    fd = fopen("xxx.in","r");
    freopen("xxx.out","w",stdout);

    int N,*Kyl;
    fscanf(fd,"%d",&N);
    Kyl = (int *)malloc(N*sizeof(int));

    int i=0;
    while (i<N) {
        fscanf(fd, "%d", &Kyl[i]);
        i=i+1;
    }

    int p=1;
    int max=Kyl[N-1];
    i=N-2;
    while (i>=0) {
        if (Kyl[i]>max) {
            max=Kyl[i];
            p=p+1;
        }
        i=i-1;
    }

    printf("%d\n", p);
    return 0;
}
```



CPP

ΤΣΑΜΗΣ ΕΜΜΑΝΟΥΗΛ ΙΔ. ΓΕΛ. ΕΛΛΗΝΙΚΟ ΚΟΛΛΕΓΙΟ ΘΕΣΣ/ΚΗΣ

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

FILE *in, *out;

int main(int argc, char** argv) {
    in = fopen("xxx.in", "r");
    int total;
    int size;
    int offset = 0;
    fscanf(in, "%d", &total);

    fseek(in, 0L, SEEK_END);

    #if defined(_WIN32)
        size = ftell(in) - 1;
    #elif defined(_WIN64)
        size = ftell(in) - 1;
    #else
        size = ftell(in);
    #endif

    fseek(in, 0L, SEEK_SET);

    char *buffer = (char*) malloc(size + 1);
    char *token;

    fread(buffer, 1, size, in);
    buffer[size] = '\n';

    int *values = (int*) malloc(total * sizeof(int));
    int i;

    while(*buffer != '\n'){
        buffer++;
    }

    buffer++;
```



```
for (i=0;i<total;i++){
    values[i] = 0;

    while(*buffer != ' ' && *buffer != '\n'){
        values[i] = (values[i] * 10) + (*buffer - '0');
        buffer++;
    }

    buffer++;
}

int maxValue = values[total - 1];
int output = 1;

for (i=total-2;i>=0;i--) {
    if (values[i] > maxValue) {
        maxValue = values[i];
        output++;
    }
}

fclose(in);

out = fopen("xxx.out", "w");
fprintf(out, "%d", output);

fclose(out);

return 0;
}
```