

algol,n<

begin

comment

<https://projecteuler.net/problem=12>

Answer: 76576500

Time: 46087.41s = 12h 48m 7.41s

No buffer:

Time classic: 38157.34

Time turbo: 38153.31 0.01pct

Buffer:

Time classic: 38154.11

Time turbo: 38150.08 0.01pct

```
;
real clock;
real procedure clock count;
code clock count;
1, 37;
  zl      , grf p-1  ; RF:=clock count; stack[p-1]:=RF;
e;
integer i,j,triangle,ndivisor,max;
i:=0;
select(16);
triangle:=0;
for i:=1 step 1 until 1000000000 do
begin
  triangle:=triangle+i;
  ndivisor:=0;
  max:=sqrt(triangle);
  if max*max=triangle then ndivisor:=-1;
  for j:=1 step 1 until max do
  begin
    if triangle mod j=0 then ndivisor:=ndivisor+2;
  end for;
  if ndivisor>500 then goto found
end;
found:
  clock:=clock count;
  writecr;
  writeinteger({p},triangle);
  writecr;
  write({ddddddd.dd},clock)
end;
t<
```