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bernoulli.pas

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```
PROGRAM bernoulli;
VAR x : INTEGER;
    p, u : REAL;
BEGIN
  randomize;
  readln(p);
  u := random;
  IF (u <= p) THEN
    x := 1
  ELSE
    x := 0;
  writeln('X=', x);
  readln;
END.
```

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binomiale.pas

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```
PROGRAM binomiale;
VAR n, x, i : INTEGER;
    p, u : REAL;
BEGIN
  randomize;
  readln(p);
  readln(n);
  x := 0;
  FOR i := 1 TO n DO
    BEGIN
      u := random;
      IF (u <= p) THEN
        x := x + 1;
      END;
    writeln('X=', x);
    readln;
  END.
```