1. Procondicion: (x==\X n m= \N n x \ge on m > 0)

Pos Coondicion: (p=\X =)

Invarianté: (x>0 nn ≥0 n X == p*x)

2. Ochogn) és logz(m) ja que a cada i tereció del bude m és reducix a la meitat.

Exercici 1: Verificació formal

private int p;

public void power (int x, int m) {

if (x | =0) {

p=1

while (m | =0) {

n | = 2; x = = x; }

}

}

P = 1

Square p=0; {

square int p;

public void power (int x, int m) {

if (x | =0) {

p=1

while (m | =0) {

n | = 2; x = = x; }

}

}

P = 1

Square p=0; {

Verificació

1.1) P=7 dom(B) int

1.2) PAB=7 WP (S1,R)

PAX! = Ø = 7 WP (S1,R)

1.2.1) Q >> P

wp(p=1,p)= \{x>\panz\que{N}==10xm}

12.2) PAC = 7 WP(S3, P)

1.2.2.1) U=Wp(m/=2; x2=X,P)-7XN==p.(xx)=/2/x270/==9

1.2.2.2) PAM (= Ø = 7 WP (IJN)

1.2.2.2.1) U=7 dom(c) int 1.2.2.2.2) Pr(rD=7 wp(p°=x,U)

WP (P== x/ X=== P(xx)= 1x2 >00=20)

X == = (Pxx mx z 7 p 1 = 01 x 1 = 01 m 1/2 = 0)=7

(XV===PX2(~=1) AX2701~=1=01x2!=01=7

XE = - PX / XZ > QUW = Q

1.2.2.2.3) PACA 7D=7WP (moll, U)

NP(~UU,U)== XN==P.XNx701=20