

Soluzioni 16-07-2008

1)

```
void stampa(int n,int max)
{
    int i;
    for (i=0;i<n;i++)
        cout<<' ';
    cout<<'**';
    if (n>=max-1)
        return;
    for (; i<max-2;i++)
        cout<<' ';
    cout<<'**'<<endl;
    stampa(n+1,max-1);
}
```

2)

```
void inverti(elem* l, elem*& l1)
{
    elem *q;
    l1=0;
    for (elem* p=l;p!=0;p=p->pun)
    {
        q = new elem;
        q->val=p->val;
        q->pun=l1;
        l1=q;
    }
}
```

3)

```
int* trovaUguali(int* mat, bool* b, int n, int k)
{
    int conta=0;
    for (int i=0; i<n; i++) if (!b[i]) conta++;
    int* mat1=new int[conta*k];
    int riga=0;
    for (int i=0;i<n;i++)
    {
        if (b[i]==false)
        {
            for (int j=0;j<k;j++)
                mat1[riga*k+j]=mat[i*k+j];
            riga++;
        }
    }
    return mat1;
}
```

4) $(342A)_{16} \rightarrow (3100222)_4$
 $(10001010)_{\text{compl2}} \rightarrow (-118)$

5) A : a = 3
B: b = 3
A : a = 0
C: a = 4
C:f() b = 4
A : a = 2
B: b = 2
A : a = 0
C: a = 3
C:f() b = 3
via C
via A
via B
via A
via C
via A
via B
via A

6) (-1)
Neg
99

(0)
Ecc. Zero
Esci Zero

(1)
Ecc. Pos.
Esci Pos