

Ex 2:

```

1) struct elem { int A, int B; };
   struct cell { elem* cell;
                elem* prev;
                elem* next; };
   typedef cell* Bliste;

```

(1pt)

```

2) Bliste supprimer(Bliste L, int k) {

```

```

    int n = longueur(L);

```

```

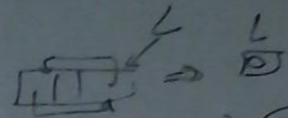
    if (k >= 0 and k <= n) {

```

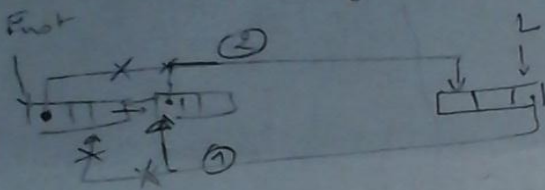
```

        if (k == 0) if (L->prev == L) { delete L; L = null; }

```



(2pts)



```

    else { Bliste First = L->prev;
            L->prev = First->prev;
            L->next->prev = L;
            delete First; }

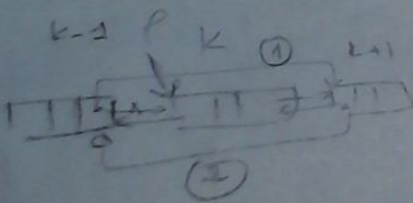
```

(2pts)

```

    else { delete P = L->next; // P = 2nd k

```



```

    for (int i = 2; i < k; i++) P = P->next;

```

```

    P->prev->next = P->next;

```

```

    P->next->prev = P->prev;

```

```

    if (L == P) L = L->prev;

```

```

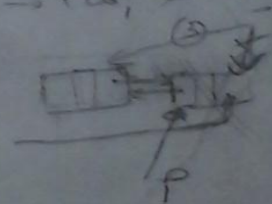
    delete P; }

```

```

    return L; }

```



(2pts)

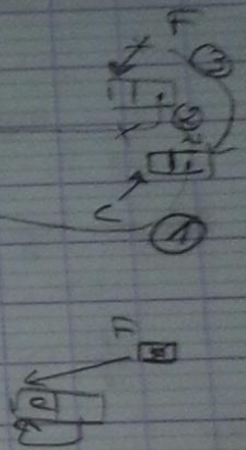
Exo 2:

```
1) struct Element { — };  
   struct cel { element val;  
              cel* lien; };  
   typedef cel* File;
```

1pt

```
2) File Ajouter (File F, Element e) {  
    cel* c = new cel;  
    c->val = e;  
    if (F != null) { c->lien = F->lien; ①  
                   F->lien = c; ②  
                   F = c; ③  
    }  
    else { c->lien = c; F = c; }  
    return F;  
}
```

3/15



```
3) Op. fond = affectation de pointeurs =  
   case 1 = min(4) = 2 + 1 = 3  
   case 2 = max(4) = 1 + 3 = 4
```

3/15

$$2+3+4+5-6$$

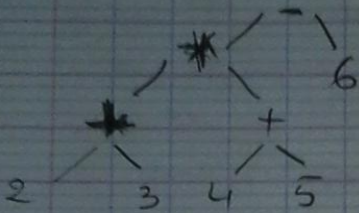
Ex 1)  $2^4 + 1 = 9 \Rightarrow n = \frac{9-1}{2} = 4$

$$bc_4 = \frac{1}{4+1} \cdot C_4^4 = \frac{8 \times 7 \times 6 \times 5 \times 4!}{8 \times 4! \cdot 4 \times 3 \times 2} = \frac{4 \times 2 \times 2 \times 2 \times 2}{4 \times 4 \times 2} = 14$$

(95)

2)

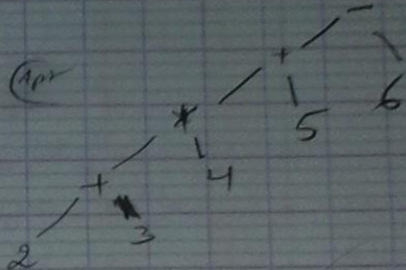
(2)



infix

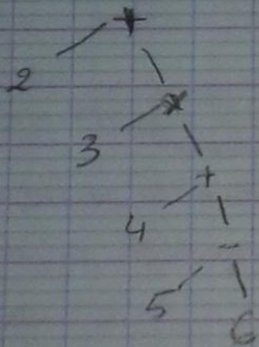
$$- * + 2 3 + 4 5 6$$

(1pr)



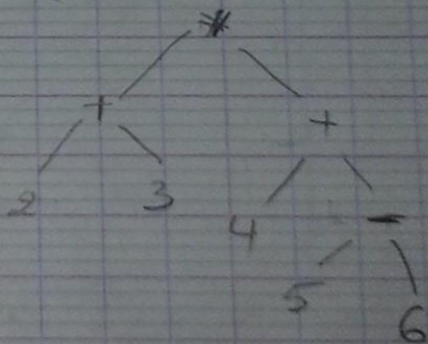
$$- + * + 2 3 4 5 6$$

(1pr)



$$+ 2 * 3 + 4 - 5 6$$

(1pr)



$$* + 2 3 + 4 - 5 6$$