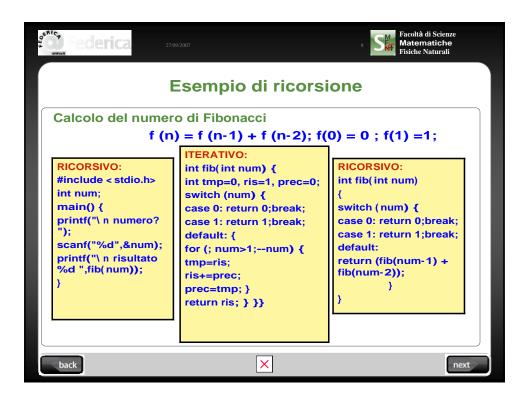
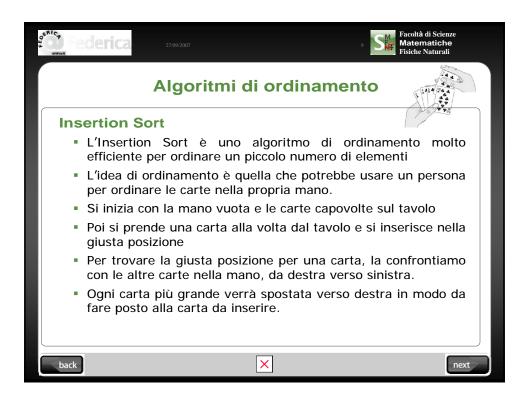
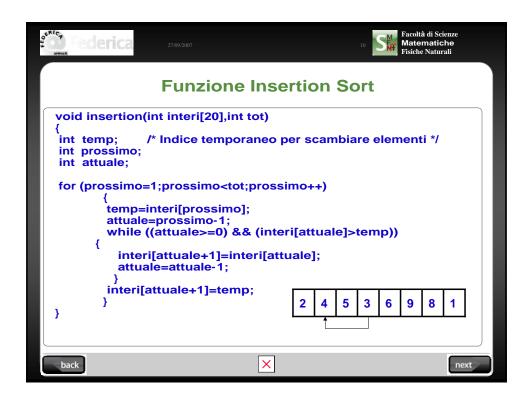


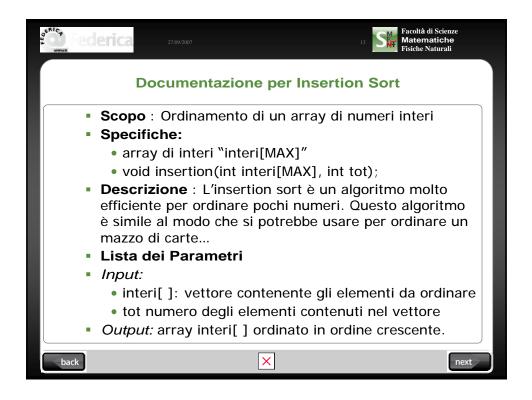
```
Facoltà di Scienze
Matematiche
Fisiche Naturali
                  Esempio di ricorsione
Calcolo del fattoriale di un numero:
n! = n*(n-1)*(n-2)*...*(n-(n-1))
                                  int fact(int num)
    int fact(int num)
    int product=1;
                                  if ( num <= 1)
    for(; num>1; --num)
                                  return 1;
    product*=num;
                                  else
                                  return (num* fact(num -
    return product;
                                  1));
                                X
back
                                                              next
```

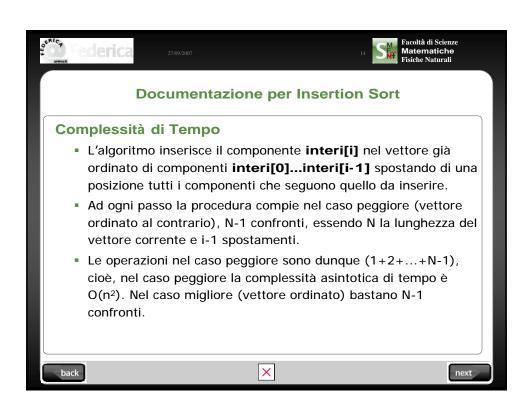


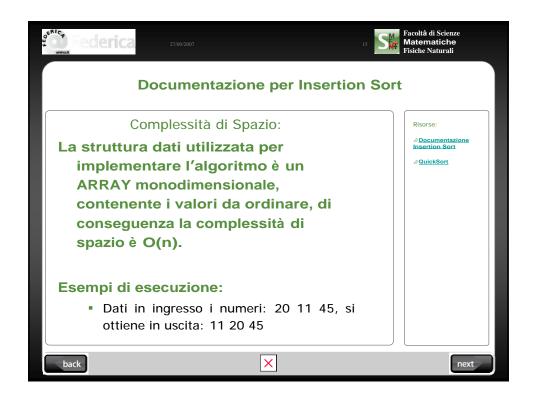


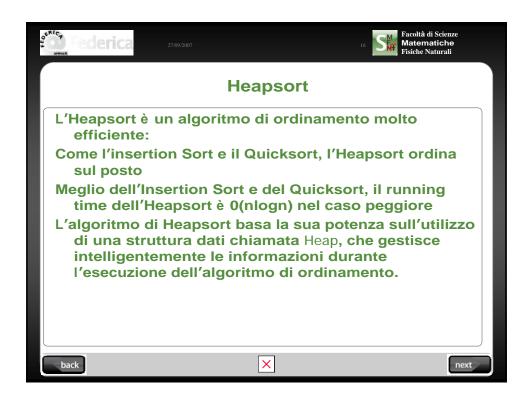


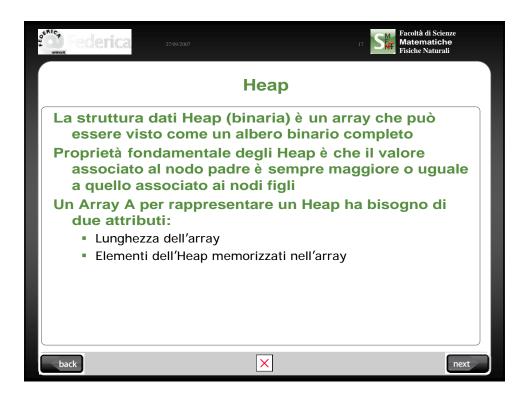


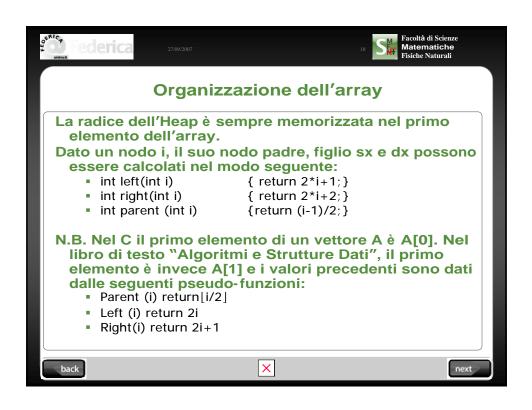


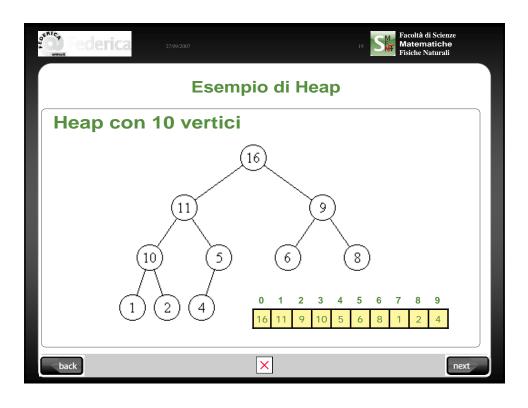




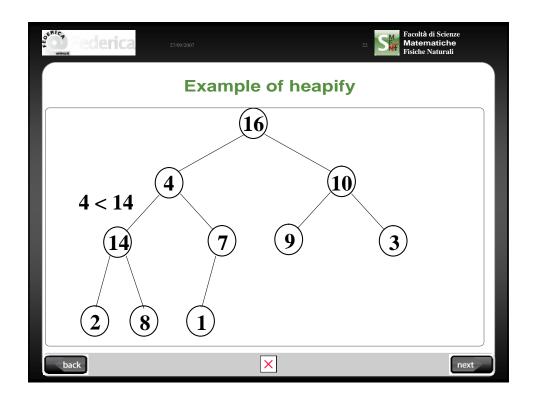


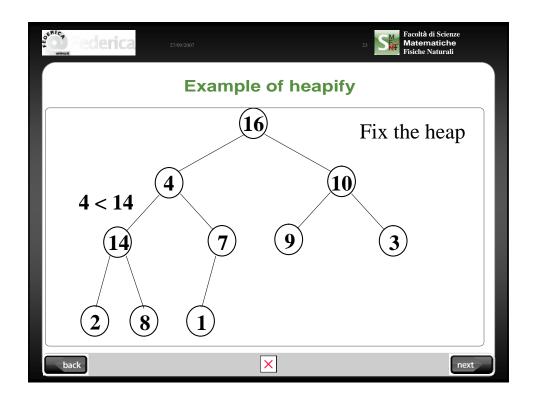


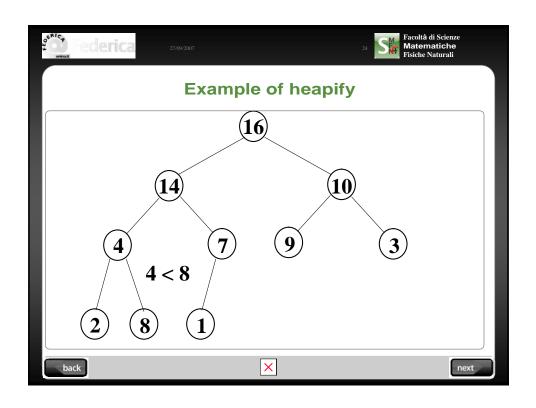


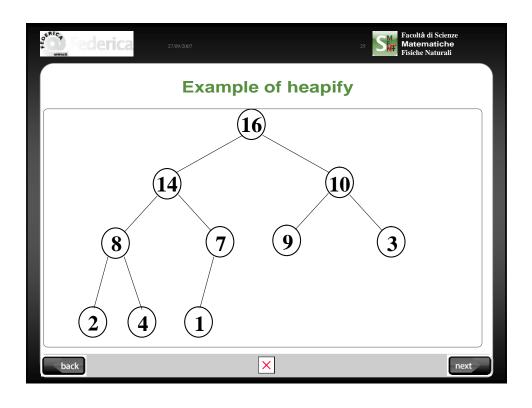


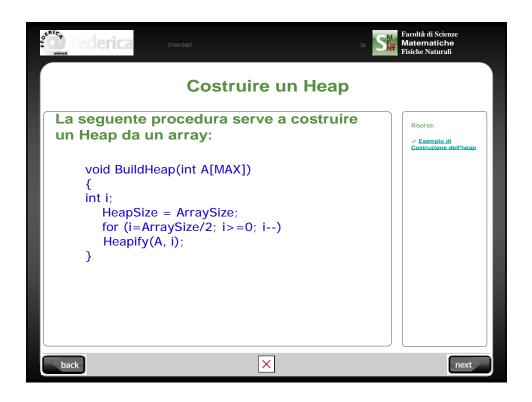












```
Funzione HeapSort

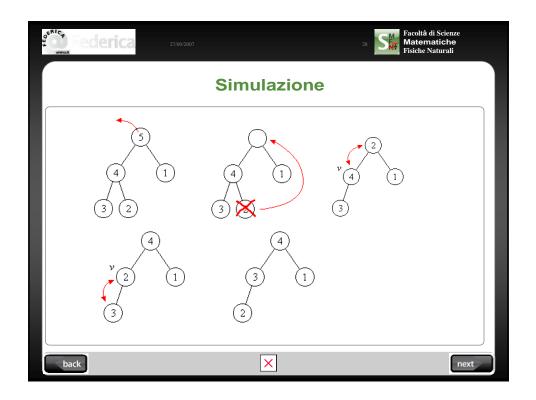
Funzione HeapSort

Fisiche Naturali

Funzione HeapSort

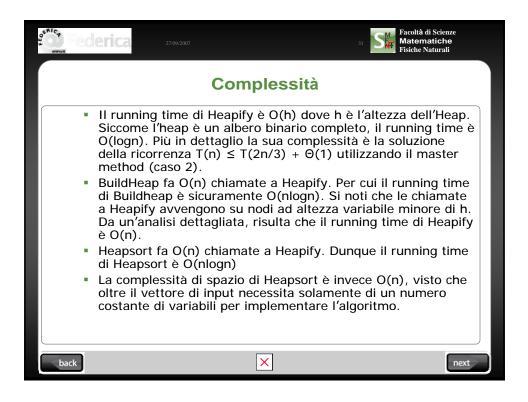
Fisiche Naturali

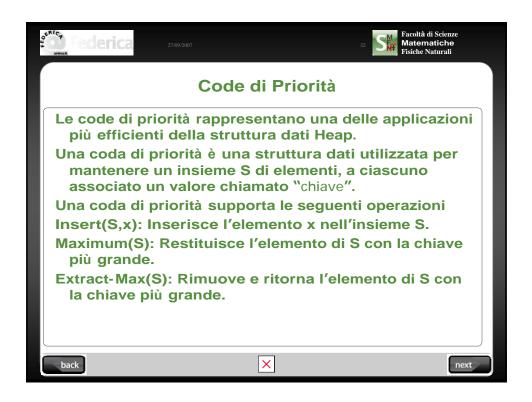
Fisiche N
```

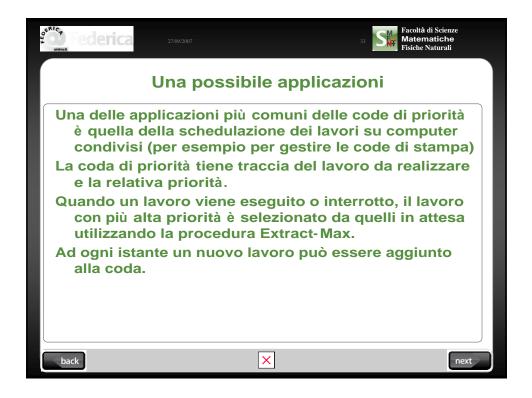


```
Facoltà di Scienze
Matematiche
Fisiche Naturali
                  Algoritmo di HeapSort
#include <stdlib.h>
#define MAX 20
int ArraySize, HeapSize, tot;
int left(int i) { return 2*i+1;}
int right(int i) { return 2*i+2;}
int p(int i)
               {return (i-1)/2;}
void swap(int A[MAX], int i, int j)
        \{int\ tmp = A[i];
        A[i] = A[j];
        A[j] = tmp;
void Heapify(int A[MAX], int i);
void BuildHeap(int A[MAX]);
void HeapSort(int A[MAX]);
                                 X
back
                                                                next
```

```
Main di HeapSort
main(){
int A[MAX], k;
printf("\ nQuanti elementi deve contenere l'array: ");
scanf("%d",&tot);
while (tot>MAX)
  { printf("\ n max 20 elementi: "); scanf("%d",&tot);}
 for (k=0;k<tot;k++) {
        printf("\ nInserire il %d° elemento: ",k+1);
        scanf("%d",&A[k]); }
 HeapSize=ArraySize=tot;
 HeapSort(A);
 printf("\ nArray Ordinato:");
  for (k=0;k<tot;k++)
    printf(" %d",A[k]);
                                X
back
```







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