Signature Posix

```
//creazione thread
int pthread create (pthread t * thread,
                       const pthread attr t * attr,
                       void * (*start routine)(void *),
                       void *arg);
// join
int pthread join( pthread t thread, void** value ptr );
//mutex
int pthread mutex init (pthread mutex t *mutex,
     pthread mutex attr *attr);
int pthread mutex lock(pthread mutex t* mutex );
int pthread mutex unlock(pthread mutex t* mutex );
int pthread mutex destroy(pthread mutex t *mutex);
//condition
int pthread cond_init( pthread_cond_t *cond,
     pthread condattr t *cond attr )
int pthread cond destroy( pthread cond t *cond )
pthread cond wait(&a c v,&a mutex);
pthread cond signal (pthread cond t *cond)
pthread cond broadcast (pthread cond t *cond)
void sleep(int seconds)
                            Signature MPI
MPI Init (&argc, &argv);
MPI Comm size (comm, &size);
MPI Comm rank (comm, &rank);
MPI Finalize ();
int MPI Send( void *buf, int count, MPI Datatype datatype, int dest,
int tag, MPI Comm comm );
int MPI Recv( void *buf, int count, MPI Datatype datatype, int
source, int tag, MPI Comm comm, MPI Status *status );
MPI Get count (MPI Status *status, MPI Datatype datatype, int *count
int MPI Isend( void *buf, int count, MPI Datatype datatype, int dest,
int tag, MPI Comm comm, MPI Request *request );
```

```
int MPI_Wait (MPI_Request *request, MPI_Status *status);
int MPI_Test (MPI_Request *request, int *flag, MPI_Status *status)
int MPI_Type_vector(int block_count, int block_length, int stride,
MPI_Datatype old_datatype, MPI_Datatype* new_datatype);
int MPI_Type_commit(MPI_Datatype* datatype);
int MPI_Type free(MPI_Datatype* datatype);
```