Per la corretta visualizzazione della pagina aprire un terminale e digitare:

```
cd /tmp
export http_proxy=
elinks http://localhost:PORTA
```

```
//Marco Zen
//5AI
//27/11/2019
#include <stdio.h>
#include <string.h>
#include <stdlib.h>
#include <unistd.h>
#include <sys/types.h>
#include <sys/stat.h>
#include <sys/socket.h>
#include <arpa/inet.h>
#include <netdb.h>
#include <signal.h>
#include <fcntl.h>
#include <sys/wait.h>
#define PORT 8888
#define MAX 10
int client[MAX];
int create_socket;
socklen_t addrlen;
struct sockaddr_in address;
void connessione(int x)
    printf("PID Figlio %d\n", getpid());
    printf("Client connesso\n");
    write(client[x], "HTTP/1.1 200 OK\n", 16);
    write(client[x], "Content-length: 46\n", 19);
    write(client[x], "Content-Type: text/html\n\n", 25);
    write(client[x], "<html><body><H1>Hello world</H1></body></html>",46);
    printf("Chiusura socket\n\n");
    shutdown(client[x], SHUT_RDWR);
    close(client[x]);
    client[x] = -1;
void startServer()
```

```
address sin_family = AF_INET;
   address.sin_addr.s_addr = INADDR_ANY;
   address.sin_port = htons(PORT);
   if ((create_socket = socket(AF_INET, SOCK_STREAM, 0)) > 0)
      printf("socket()\n");
   }
   else
       perror("socket() fallito\n");
       exit(0);
   if (bind(create_socket, (struct sockaddr *) &address, sizeof(address)) == 0)
      printf("bind()\n");
   }
   else
      perror("bind()");
      exit(0);
   if (listen(create_socket, 1000000) != 0)
       perror("listen() fallito");
       exit(1);
   }
int main()
   int i;
   int slot = 0;
   printf("PID Padre: %d\n", getpid());
   printf("Server in avvio nella porta %d\n", PORT);
   for(i = 0; i < MAX; i++) //Setto tutti i possibili client a -1
       client[i] = -1;
   startServer();
   while(1)
       addrlen = sizeof(address);
```

```
client[slot] = accept(create_socket, (struct sockaddr *) &address, &addr]
    if (client[slot] < 0)</pre>
        perror("accept() fallito");
        exit(1);
    else
    {
        int pid = fork();
        if(pid == 0) //Codice Figlio, cioè codice del client connesso
            printf("Esecuzione fork()\n");
            connessione(slot);
            wait(NULL);
            exit(0);
        }
    }
    while(client[slot] != -1)
        slot = (slot + 1) % MAX;
close(create_socket);
return 0;
```