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```
#include "
href../../common/math/cdo/copulas_h_src.pdfcopulas.h"

copula *init_copula(int t_copula, const double *p_copula)
{
    copula *cop;
    switch (t_copula)
    {
        case 1 :
            cop = init_gaussian_copula(p_copula[0]);
            break;
        case 2 :
            cop = init_clayton_copula(p_copula[0]);
            break;
        case 3 :
            cop = init_nig_copula(p_copula[0], p_copula[1], p_copula[2]);
            break;
        case 4:
            cop = init_student_copula(p_copula[0], p_copula[1]);
            break;
        case 5:
            cop = init_double_t_copula(p_copula[0], p_copula[1], p_copula[2]);
            break;
        default:
            return NULL;
    }
    return cop;
}

void free_copula(copula **cop)
{
    free((*cop)->points);
    free((*cop)->weights);
    free((*cop)->parameters);
    free(*cop);
    *cop = NULL;
}
```