```
// CrowdFunding
pragma solidity >=0.5.0 <0.9.0;
contract CrowdFunding{
  mapping(address=>uint) public contributors;
  address public manager;
  uint public minimumContribution;
  uint public deadline;
  uint public target;
  uint public raisedAmount;
  uint public noOfContribution;
  struct Request{
    string description;
    address payable recipient;
    uint value;
    bool completed;
    uint noOfVoters;
    mapping(address=>bool) voters;
  }
  mapping(uint=>Request) public requests;
  uint public numRequests;
  constructor(uint _target,uint _deadline){
    target=_target;
    deadline=block.timestamp+_deadline; // seconds
    minimumContribution=100 wei;
    manager=msg.sender;
  }
```

```
function sendEth() public payable{
  require(block.timestamp<deadline,"Deadline has passed");
  require(msg.value>=minimumContribution,"Minimum Contribution is not met");
  if(contributors[msg.sender]==0){
    noOfContribution++;
 }
  contributors[msg.sender]+=msg.value;
  raisedAmount+=msg.value;
}
function getFundBalance() public view returns(uint){
  return address(this).balance;
}
function refund() public{
  require(block.timestamp>deadline && raisedAmount<target,"You are not eligible");
  require(contributors[msg.sender]>0);
  address payable user = payable(msg.sender);
  user.transfer(contributors[msg.sender]);
  contributors[msg.sender]=0;
}
modifier onlyManager(){
  require(msg.sender==manager,"only manager can call this function");
}
```

```
function createRequest(string memory _description,address payable _recipient,uint value) public
onlyManager{
    Request storage newRequest= requests[numRequests++];
    newRequest.description=_description;
    newRequest.recipient=_recipient;
    newRequest.value=value;
    newRequest.completed=false;
    newRequest.noOfVoters=0;
  }
  function voteRequest(uint _requestNo) public{
    require(contributors[msg.sender]>0,"You must be a contributor");
    Request storage thisRequest=requests[_requestNo];
    require(thisRequest.voters[msg.sender]==false, "You have already voted");
    thisRequest.voters[msg.sender]==true;
    thisRequest.noOfVoters++;
  }
  function makePayment(uint _requestNo) public onlyManager{
    require(raisedAmount>target);
    Request storage thisRequest=requests[_requestNo];
    require(thisRequest.completed==false,"The request has been completed");
    require(thisRequest.noOfVoters>noOfContribution/2,"Majority does not supports");
    thisRequest.recipient.transfer(thisRequest.value);
    thisRequest.completed=true;
  }
}
```