Testes - Gestor de Jogo

|  |  |  |  |
| --- | --- | --- | --- |
| **Test01GetTurno** | | | |
| Variaveis | Métodos | Esperado | Obtido |
| Turno = 0 | getTurno() | 0 | 0 |
| Turno = 1 | getTurno() | 1 | 1 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Test02QuemEstaAJogar** | | | |
| Variaveis | Métodos | Esperado | Obtido |
| Turno = 0 | quemEstaAJogar() | 10 | 10 |
| Turno = 1 | quemEstaAJogar() | 20 | 20 |
| Turno = 2 | quemEstaAJogar() | 10 | 10 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Test03ContaRei** | | | |
| Variaveis | Métodos | Esperado | Obtido |
| int numReisPretosEsperados = 0, int numReisPretosAnteriorEsperado = 0 | contaRei(10) | numReisPretosEsperados = 1  numReisPretosAnteriorEsperado = 1 | numReisPretosEsperados = 1  numReisPretosAnteriorEsperado = 1 |
| numReisPretosEsperados = 1  numReisPretosAnteriorEsperado = 1 | contaRei(10) | numReisPretosEsperados = 2  numReisPretosAnteriorEsperado = 2 | numReisPretosEsperados = 2  numReisPretosAnteriorEsperado = 2 |
| numReisBrancosEsperados = 0  numReisBrancosAnteriorEsperado = 0 | contaRei(20) | numReisBrancosEsperados = 1  numReisBrancosAnteriorEsperado = 1 | numReisBrancosEsperados = 1  numReisBrancosAnteriorEsperado = 1 |
| numReisBrancosEsperados = 1  numReisBrancosAnteriorEsperado = 1 | contaRei(20) | numReisBrancosEsperados = 2  numReisBrancosAnteriorEsperado = 2 | numReisBrancosEsperados = 2  numReisBrancosAnteriorEsperado = 2 |

|  |  |  |  |
| --- | --- | --- | --- |
| **tes04ValidarJogada** | | | |
| Variaveis | Métodos | Esperado | Obtido |
| jogadasValidasPreta =0,  jogadasValidasBranca = 0  turno=0; | validarJogada(); | jogadasValidasPreta =1,  jogadasValidasBranca = 0  turno=1  equipaQueJogou=10; | jogadasValidasPreta =1,  jogadasValidasBranca = 0  turno=1 equipaQueJogou=10; |
| jogadasValidasPreta =1,  jogadasValidasBranca = 0  turno=1 | validarJogada(); | jogadasValidasPreta =1,  jogadasValidasBranca = 1  turno=2  equipaQueJogou=20; | jogadasValidasPreta =1,  jogadasValidasBranca = 1  turno=2 equipaQueJogou=20; |

|  |  |  |  |
| --- | --- | --- | --- |
| **test05NaoHouveCaptura** | | | |
| Variaveis | Métodos | Esperado | Obtido |
| TurnoSemCapturasAnterior = 0,  TurnoSemCapturas= 0;  Turno = 0  capturasPreto = 0  capturaBranco = 0 | naoHouveCaptura() | TurnoSemCapturasAnterior = 0,  TurnoSemCapturas= 0;  Turno = 1  capturasPreto = 0  capturaBranco = 0 | TurnoSemCapturasAnterior = 0,  TurnoSemCapturas= 0;  Turno = 1  capturasPreto = 0  capturaBranco = 0 |
| TurnoSemCapturasAnterior = 0,  TurnoSemCapturas = 0;  Turno = 1  capturasPreto = 0  capturaBranco = 0 | naoHouveCaptura() | TurnoSemCapturasAnterior = 0,  TurnoSemCapturas = 0;  Turno = 2  capturasPreto = 0  capturaBranco = 0 | TurnoSemCapturasAnterior = 0,  TurnoSemCapturas = 0;  Turno = 2  capturasPreto = 0  capturaBranco = 0 |
| TurnoSemCapturasAnterior = 0,  TurnoSemCapturas = 0;  Turno = 3  capturasPreto = 1  capturaBranco = 0 | naoHouveCaptura() | TurnoSemCapturasAnterior = 0,  TurnoSemCapturas = 1;  Turno = 4  capturasPreto = 1  capturaBranco = 0 | TurnoSemCapturasAnterior = 0,  TurnoSemCapturas = 1;  Turno = 4  capturasPreto = 1  capturaBranco = 0 |
| TurnoSemCapturasAnterior = 0,  TurnoSemCapturas = 1;  Turno = 4  capturasPreto = 1  capturaBranco = 0 | naoHouveCaptura() | TurnoSemCapturasAnterior = 1,  TurnoSemCapturas = 2;  Turno = 5  capturasPreto = 1  capturaBranco = 0 | TurnoSemCapturasAnterior = 1,  TurnoSemCapturas = 2;  Turno = 5  capturasPreto = 1  capturaBranco = 0 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Test06AdicionarCaptura** | | | |
| Variaveis | Métodos | Esperado | Obtido |
| Turno = 0;  capturasBranco = 0  capturasPreto = 0  numReisBranco = 1  numReisPreto = 0 | adicionarCaptura(0) | Turno = 1;  capturasBranco = 0  capturasPreto = 1  numReisBranco = 0  numReisPreto = 0 | Turno = 1;  capturasBranco = 0  capturasPreto = 1  numReisBranco = 0  numReisPreto = 0 |
| Turno = 1;  capturasBranco = 0  capturasPreto = 1  numReisBranco = 0  numReisPreto = 0 | adicionarCaptura(1) | Turno = 2;  capturasBranco = 1  capturasPreto = 1  numReisBranco = 0  numReisPreto = 0 | Turno = 2;  capturasBranco = 1  capturasPreto = 1  numReisBranco = 0  numReisPreto = 0 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Test07InvalidarJogada** | | | |
| Variaveis | Métodos | Esperado | Obtido |
| Turno = 0  jogadasInvalidaPreta = 0  jogadasInvalidaBranca = 0 | invalidarJogada() | Turno = 0  jogadasInvalidaPreta = 1  jogadasInvalidaBranca = 0 | Turno = 0  jogadasInvalidaPreta = 1  jogadasInvalidaBranca = 0 |
| Turno = 0  jogadasInvalidaPreta = 1  jogadasInvalidaBranca = 0 | invalidarJogada() | Turno = 0  jogadasInvalidaPreta = 2  jogadasInvalidaBranca = 0 | Turno = 0  jogadasInvalidaPreta = 2  jogadasInvalidaBranca = 0 |
| Turno = 1  jogadasInvalidaPreta = 2  jogadasInvalidaBranca = 0 | invalidarJogada() | Turno = 1  jogadasInvalidaPreta = 2  jogadasInvalidaBranca = 1 | Turno = 1  jogadasInvalidaPreta = 2  jogadasInvalidaBranca = 1 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Test08Undo** | | | |
| Variaveis | Métodos | Esperado | Obtido |
| Turno = 2  CapturasBranco=1  CapturasPreto=0  JogadasValidasPreto=1  JogadasValidasBranco=1  jogadasInvalidaPreta =0  jogadasInvalidaBranca=1  numReisBranco = 0  numReisPreto = 0 | Undo() | Turno = 1  CapturasBranco=0  CapturasPreto=0  JogadasValidasPreto=1  JogadasValidasBranco=0  jogadasInvalidaPreta =0  jogadasInvalidaBranca=1  numReisBranco = 0  numReisPreto = 1 | Turno = 1  CapturasBranco=0  CapturasPreto=0  JogadasValidasPreto=1  JogadasValidasBranco=0  jogadasInvalidaPreta =0  jogadasInvalidaBranca=1  numReisBranco = 0  numReisPreto = 1 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Test09PossoTerminar** | | | |
| Variaveis | Metodos | Esperado | Obtido |
| NumReisPreto = 0  NumReisBranco = 0  turnosSemCaptura = 0 | possoTerminar() | true | true |
| NumReisPreto = 1  NumReisBranco = 1  numeroPecas = 2  turnosSemCaptura = 0 | possoTerminar() | true | true |
| NumReisPreto = 2  NumReisBranco = 1  turnosSemCaptura = 0 | possoTerminar() | false | false |
| NumReisPreto = 1  NumReisBranco = 0  turnosSemCaptura = 0 | possoTerminar() | True | true |
| NumReisPreto = 2  NumReisBranco = 1  turnosSemCaptura = 10 | possoTerminar() | True | true |

|  |  |  |  |
| --- | --- | --- | --- |
| **test10GetResultados** | | | |
| Variaveis | Metodos | Esperado | Obtido |
| NumReisPreto = 1  NumReisBranco = 1 | gestor.getResultado() | [JOGO DE CRAZY CHESS, Resultado: EMPATE, ---, Equipa das Pretas, Capturas: 0, Jogadas válidas: 0, Tentativas inválidas: 0, Equipa das Brancas, Capturas: 0, Jogadas válidas: 0, Tentativas inválidas: 0] | [JOGO DE CRAZY CHESS, Resultado: EMPATE, ---, Equipa das Pretas, Capturas: 0, Jogadas válidas: 0, Tentativas inválidas: 0, Equipa das Brancas, Capturas: 0, Jogadas válidas: 0, Tentativas inválidas: 0] |
| NumReisPreto = 1  NumReisBranco = 0 | gestor.getResultado() | [JOGO DE CRAZY CHESS, Resultado: VENCERAM AS PRETAS, ---, Equipa das Pretas, Capturas: 1, Jogadas válidas: 1, Tentativas inválidas: 0, Equipa das Brancas, Capturas: 0, Jogadas válidas: 0, Tentativas inválidas: 0] | [JOGO DE CRAZY CHESS, Resultado: VENCERAM AS PRETAS, ---, Equipa das Pretas, Capturas: 1, Jogadas válidas: 1, Tentativas inválidas: 0, Equipa das Brancas, Capturas: 0, Jogadas válidas: 0, Tentativas inválidas: 0] |
| NumReisPreto = 2  NumReisBranco = 1 | gestor.getResultado() | [JOGO DE CRAZY CHESS, Resultado: EMPATE, ---, Equipa das Pretas, Capturas: 1, Jogadas válidas: 6, Tentativas inválidas: 0, Equipa das Brancas, Capturas: 0, Jogadas válidas: 5, Tentativas inválidas: 0] | [JOGO DE CRAZY CHESS, Resultado: EMPATE, ---, Equipa das Pretas, Capturas: 1, Jogadas válidas: 6, Tentativas inválidas: 0, Equipa das Brancas, Capturas: 0, Jogadas válidas: 5, Tentativas inválidas: 0] |

|  |  |  |  |
| --- | --- | --- | --- |
| **test11LoadEquipaAJogar** | | | |
| Variaveis | Metodos | Esperado | Obtido |
| jogadasValidasPreto = 2  jogadasValidasBranco = 1  turno = 3 | loadEquipaAJogar() | Turno = 3 | Turno = 3 |
| jogadasValidasPreto = 3  jogadasValidasBranco = 2  turno = 3 | loadEquipaAJogar() | Turno = 5 | Turno = 5 |

|  |  |  |  |
| --- | --- | --- | --- |
| **test12LoadJogadasValidas** | | | |
| Variaveis | Metodos | Esperado | Obtido |
| jogadasValidasPreto = 0 | loadJogadasValidas(10, 3) | jogadasValidasPreto = 3 | jogadasValidasPreto = 3 |
| jogadasValidasBranco= 0 | loadJogadasValidas(20, 9) | jogadasValidasBranco = 9 | jogadasValidasBranco = 9 |
| jogadasValidasPreto = 3 | loadJogadasValidas(10, 0) | jogadasValidasPreto = 0 | jogadasValidasPreto = 0 |
| jogadasValidasBranco= 9 | loadJogadasValidas(20, 8) | jogadasValidasBranco = 8 | jogadasValidasBranco = 8 |

|  |  |  |  |
| --- | --- | --- | --- |
| **test13LoadJogadasInvalidas** | | | |
| Variaveis | Metodos | Esperado | Obtido |
| jogadasInvalidasPreto = 0 | loadJogadasInvalidas(10, 3) | jogadasInvalidasPreto = 3 | jogadasInvalidasPreto = 3 |
| jogadasInvalidasBranco= 0 | loadJogadasInvalidas (20, 9) | jogadasInvalidasBranco = 9 | jogadasInvalidasBranco = 9 |
| jogadasInvalidasPreto = 3 | loadJogadasInvalidas (10, 0) | jogadasInvalidasPreto = 0 | jogadasInvalidasPreto = 0 |
| jogadasInvalidasBranco = 9 | loadJogadasInvalidas (20, 8) | jogadasInvalidasBranco = 8 | jogadasInvalidasBranco = 8 |

|  |  |  |  |
| --- | --- | --- | --- |
| **test14LoadCapturas** | | | |
| Variaveis | Metodos | Esperado | Obtido |
| capturasPreto = 0 | loadCapturas(10, 3) | capturasPreto = 3 | capturasPreto = 3 |
| capturasBranco= 0 | loadCapturas (20, 9) | capturasBranco = 9 | capturasBranco = 9 |
| capturasPreto = 3 | loadCapturas (10, 0) | capturasPreto = 0 | capturasPreto = 0 |
| capturasBranco = 9 | loadCapturas (20, 8) | capturasBranco = 8 | capturasBranco = 8 |

Testes - Tabuleiro

|  |  |  |  |
| --- | --- | --- | --- |
| **test01ExistemCoordenadas** | | | |
| Variaveis | Metodos | Esperado | Obtido |
|  | existemCoordenadas(0, 0, 2) | true | true |
|  | existemCoordenadas(0, -1, 2) | false | false |
|  | existemCoordenadas(2, 0, 2) | false | false |

|  |  |  |  |
| --- | --- | --- | --- |
| **test02GetTamanho** | | | |
| Variaveis | Metodos | Esperado | Obtido |
| tamanho = 4 | getTamanho () | 4 | 4 |

|  |  |  |  |
| --- | --- | --- | --- |
| **test03AcrescentaPeca** | | | |
| Variaveis | Metodos | Esperado | Obtido |
| Map<Integer, CrazyPiece> pecas vazio | acrescentaPeca(rei)  acrescentaPeca(padre)  acrescentaPeca(rainha) | Pecas = <1, rei>, <2, rainha>, <3, padre> | Pecas = <1, rei>, <2, rainha>, <3, padre> |

|  |  |  |  |
| --- | --- | --- | --- |
| **test04ColocarNoTabuleiro** | | | |
| Variaveis | Metodos | Esperado | Obtido |
| Tabuleiro={ [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0] } | colocarNoTabuleiro(0, 0, 1)  colocarNoTabuleiro(1, 3, 3)  colocarNoTabuleiro(2, 2, 2) | Tabuleiro={ [1,0,0,0,0,0,0,0], [0,0,0,3,0,0,0,0], [0,0,2,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0] } | Tabuleiro={ [1,0,0,0,0,0,0,0], [0,0,0,3,0,0,0,0], [0,0,2,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0] } |

|  |  |  |  |
| --- | --- | --- | --- |
| **test05GetPecas** | | | |
| Variaveis | Metodos | Esperado | Obtido |
| Pecas = (rei, rainha, padre) | getPecas() | (rei, rainha, padre) | (rei, rainha, padre) |

|  |  |  |  |
| --- | --- | --- | --- |
| **test06GetPeca** | | | |
| Variaveis | Metodos | Esperado | Obtido |
| Pecas = <1, rei>, <2,rainha>, <3,padre>  Tabuleiro = { [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,3,0,0,0,0,0,0], [0,0,0,2,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,1,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0] } | getPecas(6,6) | rei | rei |
| Pecas = <1, rei>, <2,rainha>, <3,padre>  Tabuleiro = { [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,3,0,0,0,0,0,0], [0,0,0,2,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,1,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0] } | getPecas(2,3) | rainha | rainha |
| Pecas = <1, rei>, <2,rainha>, <3,padre>  Tabuleiro = { [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,3,0,0,0,0,0,0], [0,0,0,2,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,1,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0] } | getPecas(1,5) | padre | padre |
| Pecas = <1, rei>, <2,rainha>, <3,padre>  Tabuleiro = { [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,3,0,0,0,0,0,0], [0,0,0,2,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,1,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0] } | getPecas(-1,5) | null | null |
| Pecas = <1, rei>, <2,rainha>, <3,padre>  Tabuleiro = { [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,3,0,0,0,0,0,0], [0,0,0,2,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,1,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0] } | getPecas(0,0) | null | null |

|  |  |  |  |
| --- | --- | --- | --- |
| **test07ObterSugestoesJogada** | | | |
| Variaveis | Metodos | Esperado | Obtido |
| Pecas = <1, rei>  Tabuleiro = { [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,1,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0] } | obterSugestoesJogada(-1,1) | "Pedido inválido" | "Pedido inválido" |
| Pecas = <1, rei>  Tabuleiro = { [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,1,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0] } | obterSugestoesJogada(1,1) | "Pedido inválido" | "Pedido inválido" |
| Pecas = <1, rei> //rei.idEquipa = 20  //Turno = 0  Tabuleiro = { [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,1,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0] } | obterSugestoesJogada(2,2) | "Pedido inválido" | "Pedido inválido" |

|  |  |  |  |
| --- | --- | --- | --- |
| **test08ProcessaJogada** | | | |
| Variaveis | Metodos | Esperado | Obtido |
| Pecas = <1, rei>, <2, rei2>, <3, rei3>  //rei.idEquipa = 10, rei2.idEquipa = 20, rei3.idEquipa = 10  Tabuleiro = { [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,1,3,0,0,0,0,0,0,0,0], [0,0,0,2,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0] } | processaJogada(-1,1, 0, 1) | false | false |
| Pecas = <1, rei>, <2, rei2>, <3, rei3>  //rei.idEquipa = 10, rei2.idEquipa = 20, rei3.idEquipa = 10  Tabuleiro = { [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,1,3,0,0,0,0,0,0,0,0], [0,0,0,2,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0] } | processaJogada(0 ,1, -1, 1) | false | false |
| Pecas = <1, rei>, <2, rei2>, <3, rei3>  //rei.idEquipa = 10, rei2.idEquipa = 20, rei3.idEquipa = 10  Tabuleiro = { [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,1,3,0,0,0,0,0,0,0,0], [0,0,0,2,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0] } | processaJogada(3 ,3, 3, 2) | false | false |
| Pecas = <1, rei>, <2, rei2>, <3, rei3>  //rei.idEquipa = 10, rei2.idEquipa = 20, rei3.idEquipa = 10  Tabuleiro = { [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,1,3,0,0,0,0,0,0,0,0], [0,0,0,2,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0] } | processaJogada(1 ,1, 3, 2) | false | false |
| Pecas = <1, rei>, <2, rei2>, <3, rei3>  //rei.idEquipa = 10, rei2.idEquipa = 20, rei3.idEquipa = 10  Tabuleiro = { [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,1,3,0,0,0,0,0,0,0,0], [0,0,0,2,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0] } | processaJogada(2 ,2, 2, 3) | false | false |
| Pecas = <1, rei>, <2, rei2>, <3, rei3>  //rei.idEquipa = 10, rei2.idEquipa = 20, rei3.idEquipa = 10  Tabuleiro = { [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,1,3,0,0,0,0,0,0,0,0], [0,0,0,2,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0] } | processaJogada(2 , 2, 1, 1) | True  fazerUndo = true  tabuleiro[2][2] = 0  tabuleiro[1][1] = 1 | True  fazerUndo = true  tabuleiro[2][2] = 0  tabuleiro[1][1] = 1 |
| Pecas = <1, rei>, <2, rei2>, <3, rei3>  //rei.idEquipa = 10, rei2.idEquipa = 20, rei3.idEquipa = 10  Tabuleiro = { [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,1,3,0,0,0,0,0,0,0,0], [0,0,0,2,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0] } | processaJogada(3 , 3, 2, 3) | True  fazerUndo = true  tabuleiro[3][3] = 0  tabuleiro[2][3] = 1 | True  fazerUndo = true  tabuleiro[3][3] = 0  tabuleiro[2][3] = 1 |

|  |  |  |  |
| --- | --- | --- | --- |
| **test09AtualizarAnterior** | | | |
| Variaveis | Metodos | Esperado | Obtido |
| Pecas = <1, rei>, <2, rei2>, <3, rei3>  //rei.idEquipa = 10, rei2.idEquipa = 20, rei3.idEquipa = 10  Tabuleiro = { [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,1,3,0,0,0,0,0,0,0,0], [0,0,0,2,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0] }  TabuleiroAnterior = { [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,1,3,0,0,0,0,0,0,0,0], [0,0,0,2,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0] } | atualizarAnterior () | TabuleiroAnterior = { [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,1,3,0,0,0,0,0,0,0,0], [0,0,0,2,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0] } | TabuleiroAnterior = { [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,1,3,0,0,0,0,0,0,0,0], [0,0,0,2,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0,0,0,0,0] } |

|  |  |  |  |
| --- | --- | --- | --- |
| **test01MoveHorizonal** | | | |
| Variaveis | Metodos | Esperado | Obtido |
|  | moveHorizontal(1, 1) | true | true |
|  | moveHorizontal(1, 0) | False | false |
|  | moveHorizontal(2, 3) | false | false |

|  |  |  |  |
| --- | --- | --- | --- |
| **test02MoveVertical** | | | |
| Variaveis | Metodos | Esperado | Obtido |
|  | moveVertical(1, 1) | true | true |
|  | moveVertical (2, 1) | False | false |
|  | moveVertical (1, 3) | false | false |

|  |  |  |  |
| --- | --- | --- | --- |
| **test03MoveDiagonal** | | | |
| Variaveis | Metodos | Esperado | Obtido |
|  | moveDiagonal(1, 1, 2, 2) | true | true |
|  | moveDiagonal (1, 1, 0, 0) | true | true |
|  | moveDiagonal (2, 3, 1, 4) | true | true |
|  | moveDiagonal (3, 2, 4, 3) | true | true |
|  | moveDiagonal (0, 1, 0, 2) | False | false |
|  | moveDiagonal (0, 1, 1, 1) | False | false |
|  | moveDiagonal (3, 1, 2, 3) | False | false |

|  |  |  |  |
| --- | --- | --- | --- |
| **test04Move** | | | |
| Variaveis | Metodos | Esperado | Obtido |
|  | move (1, 3, 4, 2) | true | true |
|  | move (1, 3, 1, 3) | false | false |
|  | move (2, 5, 2, 5) | false | false |

|  |  |  |  |
| --- | --- | --- | --- |
| **test05MoveDentroLimite** | | | |
| Variaveis | Metodos | Esperado | Obtido |
|  | moveDentroLimite (1,1,2,2,1) | true | true |
|  | moveDentroLimite(1,1,0,2,1) | true | true |
|  | moveDentroLimite(3,2,0,5,3) | true | true |
|  | moveDentroLimite(3,2,2,1,3) | True | True |
|  | moveDentroLimite(0,0,3,3,2) | False | false |

|  |  |  |  |
| --- | --- | --- | --- |
| **test06GetPecasNoCaminho** | | | |
| Variaveis | Metodos | Esperado | Obtido |
| Tabuleiro{[0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [1,1,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0]}  pecas<1, lebre> | getPecasNoCaminho (2,0,2,3, pecas, tabuleiro) | [1 | Lebre | 2 | 10 | Lebre @ (n/a)] | [1 | Lebre | 2 | 10 | Lebre @ (n/a)] |
| Tabuleiro{[0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [1,1,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0]}  pecas<1, lebre> | getPecasNoCaminho (2,0,3,1, pecas, tabuleiro) | Lista vazia | Lista vazia |
| Tabuleiro{[0,0,0,0,0,0,0,0], [0,1,0,0,0,0,0,0], [0,1,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0]}  pecas<1, lebre, rei> | getPecasNoCaminho (3,1,0,1, pecas, tabuleiro) | <[1 | Rei | (infinito) | 20 | Rei @ (n/a), 2 | Lebre | 2 | 10 | Lebre @ (n/a)]> | <[1 | Rei | (infinito) | 20 | Rei @ (n/a), 2 | Lebre | 2 | 10 | Lebre @ (n/a)]> |
| Tabuleiro{[0,0,0,0,0,0,0,0], [0,1,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,1,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0]}  pecas<1, lebre, rei> | getPecasNoCaminho (4,4,0,0, pecas, tabuleiro) | <[1 | Lebre | 2 | 10 | Lebre @ (n/a), 1 | Rei | (infinito) | 20 | Rei @ (n/a)]> | <[1 | Lebre | 2 | 10 | Lebre @ (n/a), 1 | Rei | (infinito) | 20 | Rei @ (n/a)]> |

|  |  |  |  |
| --- | --- | --- | --- |
| **test07GetPecasNumRaio** | | | |
| Variaveis | Metodos | Esperado | Obtido |
| Tabuleiro{[0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,2,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0]}  pecas<2, rei> | getPecasNumRaio (4,4,1, tabuleiro, pecas) | (rei) | (rei) |
| Tabuleiro{[0,0,2,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0]}  pecas<2, rei> | getPecasNumRaio (0, 0, 2, tabuleiro, pecas) | (rei) | (rei) |
| Tabuleiro{[0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0]}  pecas<2, rei> | getPecasNumRaio (4, 4, 2, tabuleiro, pecas) | Lista vazia | Lista vazia |
| Tabuleiro{[0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0,0,0,0,2]}  pecas<2, rei> | getPecasNumRaio (7, 0, 3, tabuleiro, pecas) | (rei) | (rei) |

Testes - Rei

|  |  |  |  |
| --- | --- | --- | --- |
| **test01PNGPreta** | | | |
| Variaveis | Metodos | Esperado | Obtido |
|  | getImagePNG() | "preto\_rei.png" | "preto\_rei.png" |

|  |  |  |  |
| --- | --- | --- | --- |
| **test02PNGNula** | | | |
| Variaveis | Metodos | Esperado | Obtido |
|  | getImagePNG() | null | null |

|  |  |  |  |
| --- | --- | --- | --- |
| **test03PNGBranca** | | | |
| Variaveis | Metodos | Esperado | Obtido |
|  | getImagePNG() | "branco\_rei.png" | "branco\_rei.png" |

|  |  |  |  |
| --- | --- | --- | --- |
| **test04GetNome** | | | |
| Variaveis | Metodos | Esperado | Obtido |
|  | getNome() | “Rei” | “Rei” |

|  |  |  |  |
| --- | --- | --- | --- |
| **test05GetValorRelativo** | | | |
| Variaveis | Metodos | Esperado | Obtido |
|  | getNome() | "(infinito)" | "(infinito)" |

|  |  |  |  |
| --- | --- | --- | --- |
| **test06Sugestoes** | | | |
| Variaveis | Metodos | Esperado | Obtido |
| tabuleiro{[0,0,0,0], [0,1,0,0], [0,0,0,0], [0,0,0,0]}  pecas<1, rei> | darSugestao(1, 1, pecas, tabuleiroMatrix, 0) | { "0, 0", "0, 1", "0, 2", "1, 0", "1, 2", "2, 0", "2, 1", "2, 2" } | { "0, 0", "0, 1", "0, 2", "1, 0", "1, 2", "2, 0", "2, 1", "2, 2" } |

Testes – Lebre

|  |  |  |  |
| --- | --- | --- | --- |
| **test01PNGPreta** | | | |
| Variaveis | Metodos | Esperado | Obtido |
|  | getImagePNG() | "preto\_lebre.png" | "preto\_lebre.png" |

|  |  |  |  |
| --- | --- | --- | --- |
| **test02PNGNula** | | | |
| Variaveis | Metodos | Esperado | Obtido |
|  | getImagePNG() | null | null |

|  |  |  |  |
| --- | --- | --- | --- |
| **test03PNGBranca** | | | |
| Variaveis | Metodos | Esperado | Obtido |
|  | getImagePNG() | "branco\_lebre.png" | "branco\_lebre.png" |

|  |  |  |  |
| --- | --- | --- | --- |
| **test04GetNome** | | | |
| Variaveis | Metodos | Esperado | Obtido |
|  | getNome() | “Lebre” | “Lebre” |

|  |  |  |  |
| --- | --- | --- | --- |
| **test05GetValorRelativo** | | | |
| Variaveis | Metodos | Esperado | Obtido |
|  | getNome() | "2" | "2" |

|  |  |  |  |
| --- | --- | --- | --- |
| **test06Sugestoes** | | | |
| Variaveis | Metodos | Esperado | Obtido |
| tabuleiro{[0,0,0,0], [0,1,0,0], [0,0,0,0], [0,0,0,0]}  pecas<1, lebre> | darSugestao(1, 1, pecas, tabuleiroMatrix, 0) | { "0, 0", "0, 2", "2, 0", "2, 2" } | { "0, 0", "0, 2", "2, 0", "2, 2" } |

|  |  |  |  |
| --- | --- | --- | --- |
| **test07VerificaMovimentoTurnoErrado** | | | |
| Variaveis | Metodos | Esperado | Obtido |
| tabuleiro{[1,0,0,0], [0,0,0,0], [0,0,0,0], [0,0,0,0]}  pecas<1, lebre>  turno = 1 | lebre.verificarSeMove(0,0, 1, 1, pecas, tabuleiroMatrix, 1) | false | false |

|  |  |  |  |
| --- | --- | --- | --- |
| **test08VerificaMovimentoVertical** | | | |
| Variaveis | Metodos | Esperado | Obtido |
| tabuleiro{[0,0,0,0], [0,0,0,0], [0,0,1,0], [0,0,0,0]}  pecas<1, lebre> | lebre.verificarSeMove(2,2, 3, 1, pecas, tabuleiroMatrix, 0) | false | false |

|  |  |  |  |
| --- | --- | --- | --- |
| **test09VerificaMovimentoHorizontal** | | | |
| Variaveis | Metodos | Esperado | Obtido |
| tabuleiro{[0,0,0,0], [0,0,0,0], [0,0,1,0], [0,0,0,0]}  pecas<1, lebre> | lebre.verificarSeMove(2,2, 2, 3, pecas, tabuleiroMatrix, 0) | false | false |

|  |  |  |  |
| --- | --- | --- | --- |
| **Test10SetCoordenadas** | | | |
| Variaveis | Metodos | Esperado | Obtido |
| coordenadas = (n/a) | setCoordenadas(1,2) | coordenadas = "(1, 2)"  coordenadasAnterior = “(n/a)” | coordenadas = "(1, 2)"  coordenadasAnterior = “(n/a)” |

|  |  |  |  |
| --- | --- | --- | --- |
| **Test11ResetCoordenadas** | | | |
| Variaveis | Metodos | Esperado | Obtido |
| coordenadas = “(1, 2)” | resetCoordenadas() | coordenadas = "(n/a)"  coordenadasAnterior = “(1, 2)” | coordenadas = "(n/a)"  coordenadasAnterior = “(1, 2)” |

|  |  |  |  |
| --- | --- | --- | --- |
| **Test12Equals** | | | |
| Variaveis | Metodos | Esperado | Obtido |
| idLebre1 = 1  idLebre2 = 1 | equals (Lebre2) | true | true |

Testes – Padre da Vila

|  |  |  |  |
| --- | --- | --- | --- |
| **test01PNGPreta** | | | |
| Variaveis | Metodos | Esperado | Obtido |
|  | getImagePNG() | "preto\_padre.png" | "preto\_padre.png" |

|  |  |  |  |
| --- | --- | --- | --- |
| **test02PNGNula** | | | |
| Variaveis | Metodos | Esperado | Obtido |
|  | getImagePNG() | null | null |

|  |  |  |  |
| --- | --- | --- | --- |
| **test03PNGBranco** | | | |
| Variaveis | Metodos | Esperado | Obtido |
|  | getImagePNG() | "branco\_padre.png" | "branco\_padre.png" |

|  |  |  |  |
| --- | --- | --- | --- |
| **test04Nome** | | | |
| Variaveis | Metodos | Esperado | Obtido |
|  | getNome() | "Padre da Vila" | "Padre da Vila" |

|  |  |  |  |
| --- | --- | --- | --- |
| **test05ValorRelativo** | | | |
| Variaveis | Metodos | Esperado | Obtido |
|  | getImagePNG() | 3 | 3 |

|  |  |  |  |
| --- | --- | --- | --- |
| **test06Sugestoes** | | | |
| Variaveis | Metodos | Esperado | Obtido |
| tabuleiro{[0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0] [0,0,0,1, 0,0,0,0], [0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0]}  pecas<1, padre> | darSugestao(4, 4, pecas, tabuleiroMatrix, 0) | {"1, 1","1, 7","2, 2","2, 6","3, 3","3, 5","5, 3","5, 5","6, 2","6, 6","7, 1","7, 7"} | {"1, 1","1, 7","2, 2","2, 6","3, 3","3, 5","5, 3","5, 5","6, 2","6, 6","7, 1","7, 7"} |

Testes – Ponei Magico

|  |  |  |  |
| --- | --- | --- | --- |
| **test01PNGPreta** | | | |
| Variaveis | Metodos | Esperado | Obtido |
|  | getImagePNG() | "preto\_ponei.png" | "preto\_ponei.png" |

|  |  |  |  |
| --- | --- | --- | --- |
| **test02PNGNula** | | | |
| Variaveis | Metodos | Esperado | Obtido |
|  | getImagePNG() | null | null |

|  |  |  |  |
| --- | --- | --- | --- |
| **test03PNGBranca** | | | |
| Variaveis | Metodos | Esperado | Obtido |
|  | getImagePNG() | "branco\_ponei.png" | "branco\_ponei.png" |

|  |  |  |  |
| --- | --- | --- | --- |
| **test04Nome** | | | |
| Variaveis | Metodos | Esperado | Obtido |
|  | getNome() | "Ponei Mágico " | "Ponei Mágico" |

|  |  |  |  |
| --- | --- | --- | --- |
| **test05ValorRelativo** | | | |
| Variaveis | Metodos | Esperado | Obtido |
|  | getImagePNG() | 5 | 5 |

|  |  |  |  |
| --- | --- | --- | --- |
| **test06Sugestoes** | | | |
| Variaveis | Metodos | Esperado | Obtido |
| tabuleiro{[0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0] [0,0,0,1, 0,0,0,0], [0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0]}  pecas<1, ponei> | darSugestao(4, 4, pecas, tabuleiroMatrix, 0) | {"2, 2","2, 6", "6,2", "6, 6"} | {"2, 2","2, 6", "6,2", "6, 6"} |

|  |  |  |  |
| --- | --- | --- | --- |
| **test06SaltarReis** | | | |
| Variaveis | Metodos | Esperado | Obtido |
| tabuleiro{[0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0], [0,0,0,2, 0,0,0,0], [0,0,3,0, 0,0,0,0] [0,0,0,0, 1,0,0,0], [0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0]}  pecas<1, ponei>  pecas<2, rei>  pecas<3, king> | verificarSeMove(4,4, 2, 2, pecas, tabuleiroMatrix, 0) | false | false |
| tabuleiro{[0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0] [0,0,2,0, 1,0,0,0], [0,0,0,0, 0,0,0,0], [0,0,0,0, 3,0,0,0], [0,0,0,0, 0,0,0,0]}  pecas<1, ponei>  pecas<2, rei>  pecas<3, king> | verificarSeMove(4,4, 6, 1, pecas, tabuleiroMatrix, 0) | false | false |
| tabuleiro{[0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0], [0,0,0,0,3,0,0,0], [0,0,0,0, 0,0,2,0] [0,0,0,0, 1,0,0,0], [0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0]}  pecas<1, ponei>  pecas<2, rei>  pecas<3, king> | verificarSeMove(4,4, 2, 6, pecas, tabuleiroMatrix, 0) | false | false |
| tabuleiro{[0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0], [0,0,0,0,0,0,0,0], [0,0,0,0, 0,0,0,0] [0,0,0,0, 1,0,0,0], [0,0,0,0, 0,0,3,0], [0,0,0,0, 0,2,0,0], [0,0,0,0, 0,0,0,0]}  pecas<1, ponei>  pecas<2, rei>  pecas<3, king> | verificarSeMove(4,4, 6, 6, pecas, tabuleiroMatrix, 0) | false | false |

Testes – TorreH

|  |  |  |  |
| --- | --- | --- | --- |
| **test01PNGPreta** | | | |
| Variaveis | Metodos | Esperado | Obtido |
|  | getImagePNG() | "preto\_torreH.png" | "preto\_torreH.png" |

|  |  |  |  |
| --- | --- | --- | --- |
| **test02PNGNula** | | | |
| Variaveis | Metodos | Esperado | Obtido |
|  | getImagePNG() | null | null |

|  |  |  |  |
| --- | --- | --- | --- |
| **test03PNGBranca** | | | |
| Variaveis | Metodos | Esperado | Obtido |
|  | getImagePNG() | "branco\_torreH.png" | "branco\_torreH.png" |

|  |  |  |  |
| --- | --- | --- | --- |
| **test04Nome** | | | |
| Variaveis | Metodos | Esperado | Obtido |
|  | getNome() | "TorreH" | "TorreH" |

|  |  |  |  |
| --- | --- | --- | --- |
| **test05ValorRelativo** | | | |
| Variaveis | Metodos | Esperado | Obtido |
|  | getImagePNG() | 3 | 3 |

|  |  |  |  |
| --- | --- | --- | --- |
| **test06Sugestoes** | | | |
| Variaveis | Metodos | Esperado | Obtido |
| tabuleiro{[1,0,0,0, 0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0, 0,0,0,0] [0,0,0,0, 0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0, 0,0,0,0] [0,0,0,0, 0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0, 0,0,0,0]}  pecas<1, torreH> | darSugestao(1, 1, pecas, tabuleiroMatrix, 0) | {"0, 1","2, 1","3, 1","4, 1","5, 1","6, 1","7, 1","8, 1","9, 1","10, 1","11, 1"} | {"0, 1","2, 1","3, 1","4, 1","5, 1","6, 1","7, 1","8, 1","9, 1","10, 1","11, 1"} |

Testes – TorreV

|  |  |  |  |
| --- | --- | --- | --- |
| **test01PNGPreta** | | | |
| Variaveis | Metodos | Esperado | Obtido |
|  | getImagePNG() | "preto\_torreV.png" | "preto\_torreV.png" |

|  |  |  |  |
| --- | --- | --- | --- |
| **test02PNGNula** | | | |
| Variaveis | Metodos | Esperado | Obtido |
|  | getImagePNG() | null | null |

|  |  |  |  |
| --- | --- | --- | --- |
| **test03PNGBranca** | | | |
| Variaveis | Metodos | Esperado | Obtido |
|  | getImagePNG() | "branco\_torreV.png" | "branco\_torreV.png" |

|  |  |  |  |
| --- | --- | --- | --- |
| **test04Nome** | | | |
| Variaveis | Metodos | Esperado | Obtido |
|  | getNome() | "TorreV" | "TorreV" |

|  |  |  |  |
| --- | --- | --- | --- |
| **test05ValorRelativo** | | | |
| Variaveis | Metodos | Esperado | Obtido |
|  | getImagePNG() | 3 | 3 |

|  |  |  |  |
| --- | --- | --- | --- |
| **test06Sugestoes** | | | |
| Variaveis | Metodos | Esperado | Obtido |
| tabuleiro{[1,0,0,0, 0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0, 0,0,0,0] [0,0,0,0, 0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0, 0,0,0,0] [0,0,0,0, 0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0, 0,0,0,0]}  pecas<1, torreV> | darSugestao(6, 6, pecas, tabuleiroMatrix, 0) | {"1,0","1, 2","1, 3","1, 4","1, 5","1, 6","1, 7","1, 8","1, 9","1, 10","1, 11"} | {"1,0","1, 2","1, 3","1, 4","1, 5","1, 6","1, 7","1, 8","1, 9","1, 10","1, 11"} |

Testes – Rainha

|  |  |  |  |
| --- | --- | --- | --- |
| **test01PNGPreta** | | | |
| Variaveis | Metodos | Esperado | Obtido |
|  | getImagePNG() | "preto\_rainha.png" | "preto\_rainha.png" |

|  |  |  |  |
| --- | --- | --- | --- |
| **test02PNGNula** | | | |
| Variaveis | Metodos | Esperado | Obtido |
|  | getImagePNG() | null | null |

|  |  |  |  |
| --- | --- | --- | --- |
| **test03PNGBranca** | | | |
| Variaveis | Metodos | Esperado | Obtido |
|  | getImagePNG() | "branco\_rainha.png" | "branco\_rainha.png" |

|  |  |  |  |
| --- | --- | --- | --- |
| **test04Nome** | | | |
| Variaveis | Metodos | Esperado | Obtido |
|  | getNome() | "Rainha" | "Rainha" |

|  |  |  |  |
| --- | --- | --- | --- |
| **test05ValorRelativo** | | | |
| Variaveis | Metodos | Esperado | Obtido |
|  | getImagePNG() | 8 | 8 |

|  |  |  |  |
| --- | --- | --- | --- |
| **test06Sugestoes** | | | |
| Variaveis | Metodos | Esperado | Obtido |
| tabuleiro{[0,0,0,0, 0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0, 0,0,0,0] [0,0,0,0, 0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,1,0, 0,0,0,0], [0,0,0,0, 0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0, 0,0,0,0] [0,0,0,0, 0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0, 0,0,0,0], [0,0,0,0, 0,0,0,0, 0,0,0,0]}  pecas<1, rainha> | darSugestao(1, 1, pecas, tabuleiroMatrix, 0) | {"1,1","1, 6","1, 11","2, 2","2, 6","2, 10","3, 3","3, 6","3, 9","4, 4","4, 6", “4,8”, “5,5”, “5,6”, “5,7”, “6,1”, “6,2”, 6,3”, “6,4”, “6,5”,”6,7”,”6,8”,”6,9”,”6,10”, “6,11”, “7,5”, “7,6”, “7,7”, “8,4”, “8,6”, “8,8”, “9,3”, “9,6”, “9,9”, “10, 2”, “10, 6”, “10, 10”, “11, 1”, “11, 6”, “11, 11”} | {"1,1","1, 6","1, 11","2, 2","2, 6","2, 10","3, 3","3, 6","3, 9","4, 4","4, 6", “4,8”, “5,5”, “5,6”, “5,7”, “6,1”, “6,2”, 6,3”, “6,4”, “6,5”,”6,7”,”6,8”,”6,9”,”6,10”, “6,11”, “7,5”, “7,6”, “7,7”, “8,4”, “8,6”, “8,8”, “9,3”, “9,6”, “9,9”, “10, 2”, “10, 6”, “10, 10”, “11, 1”, “11, 6”, “11, 11”} |

|  |  |  |  |
| --- | --- | --- | --- |
| **test07PactoEntreRainhas** | | | |
| Variaveis | Metodos | Esperado | Obtido |
| tabuleiro{[0,0,0,0], [0,1,0,0], [0,0,2,0], [0,0,0,0]}  pecas<1, rainha1>  pecas<2, rainha2> | verificarSeMove(1,1, 2, 2, pecas, tabuleiroMatrix, 0) | false | false |
| **test08MovimentosImpossiveis** | | | |
| Variaveis | Metodos | Esperado | Obtido |
| tabuleiro{[1,2,0,0], [0,0,0,0], [0,0,0,0], [0,0,0,0]}  pecas<1, rainha>  pecas<2, rei> | verificarSeMove(0,0, 0, 2, pecas, tabuleiroMatrix, 0) | false | false |
| tabuleiro{[0,0,0,0], [0,1,0,0], [0,0,2,0], [0,0,0,0]}  pecas<1, rainha>  pecas<2, rei> | verificarSeMove(1,1, 3, 3, pecas, tabuleiroMatrix, 0) | false | false |
| tabuleiro{[0,1,0,0], [0,0,0,0], [0,2,0,0], [0,0,0,0]}  pecas<1, rainha>  pecas<2, rei> | verificarSeMove(0,1, 3, 1, pecas, tabuleiroMatrix, 0) | false | false |