		ção ção	e Grover vamos ter as seguintes etap	as:
E :: : : : : : : : : : : : : : : : : :	Vamos inicializaç from qiskit matplotlil from qiskit	zar os estados do s ção é feita através o t import * b inline t.tools.visual:	sistema com a mesma amplitude. $\displaystyle\sum_{x_i}$ da sobreposição dos $qubits$ aplicando ization import *	$\ket{x_i}$ o um gate de Hadamard a cada um.
	from qiskit from qiskit n=3 cr = Class: qr = Quanti	t import IBMQ t.providers.ibm icalRegister(n, umRegister(n, umCircuit(qr,	mq import least_busy , 'c') 'q')	
	q ₀ - F q ₁ - F q ₂ - F	н – н – н –		
١	Como no noss	oráculo que vai sei so caso o número p		nosso número em binário pretendido. ⁻ aplicar nenhum gate-X e simplesmente vamos aplicar o ur gate-CCX e gate-H.
(circuit circuit circuit oracle(qc,	(circuit,q): t.h(q[2]) t.ccx(q[0],q[1]) t.h(q[2]) qr) tput='mpl')],q[2])	
	$q_1 - +$ $q_2 - +$ $c \xrightarrow{3}$	н — н — —	-H-	
k	backend_sta result = ex qstate = re	ate = Aer.get_l xecute(qc, back esult.get_state	backend('statevector_simulate kend_state).result() evector(qc)	oráculo está a mudar de fase nos qubits pretendidos. or') nto representa o 111 temos que o oracle está correto.
ř	0.3 0.3 0.3 Apresentamos	35355339+0.0000 35355339+0.0000 35355339+0.0000 s em seguida o stat	00000e+00j, 0.35355339+0.000 00000e+00j, 0.35355339-4.329 00000e+00j, 0.35355339+0.000 00000e+00j, -0.35355339+4.329 revector em forma de gráficos para me	978028e-17j, 000000e+00j, 978028e-17j])
I	olot_state	_city(qstate)	0.10 0.05 0.00æ	
]		hinton (qstate		
	000 - 001 - 010 - 011 - 010 - 011 -	Re[ρ]	Im[ρ] 000 - 001 - 011 - 100 - 101 -	
	110 - 111 - 111 - 100 00 00 00 00 00 00 00 00 00 00 00 00	ção	110 - 111 - 0 0 0 0 0 0	plitude dos qubits de forma a que aumente a probabilidade
r	def diffuse circuit circuit circuit	er (circuit, qr)	demos. Para isso é necessário inverte eamente reduzir das restantes compo :	r e aumentar a amplitude da componente pretendidade em
i	circuit circuit 4	t.x(qr) t.h(qr) criar um $Quantur$ ando $round(m.sqr$ $sqrt(2**n))$.		culo e $diffuser$ aproximadamente $\sqrt{2^n}$. O espectável ser resultados fazendo duas iterações, por isso usamos
† F	print(times 2 Eazemos no fi	loor(m.sqrt(2* s) im a medição que c		o de cada um dos qubits para um bit clássico. Ao ser medio obter o estado quântico inicial.
1	qc_Grover.h for t in ra oracle diffuse	QuantumCircuith (qr) ange(times): (qc_Grover,qr) er(qc_Grover,qr) measure(qr,cr)		
	$q_0 - H - q_1 - H - c \xrightarrow{3}$	draw(output='m] H - X H - H - H	x H X H X H H A X H H H	H X X H X H X H X H X H X H
]	result = ex qstate = re	xecute(qc_Grove	ueremos é o que tem a maior probabil er, backend_state).result() evector(qc_Grover)	idade.
			1.0 0.8 0.6 3 0.4 4 0.2 0.0 0.0 1/1/1	
	Simulação		d("qasm_simulator")	90,91,40,91,40,401,40,40
	shots=1024 result = ex	xecute(qc_Grove	er, backend, shots=shots).rescounts(qc_Grover)	sult()
	0.75			
2	qc_Grover.c		0.010 0.006 0.008 0.006 0.010 0.006 0.008	
I	provider = provider.ba [<ibmqsimul <ibmqbacka="" <ibmqbacka<="" td=""><td>lator('ibmq_qasend('ibmqx2') rend('ibmq_16_meend('ibmq_armorend('ibmq_athere</td><td>sm_simulator') from IBMQ(hub=from IBMQ(hub='ibm-q', group=elbourne') from IBMQ(hub='ibm-q', qns') from IBMQ(hub='ibm-q', qns') from IBMQ(hub='ibm-q', qns')</td><td><pre>n-q', group='open', project='main')>, group='open', project='main')>, group='open', project='main')>,</pre></td></ibmqsimul>	lator('ibmq_qasend('ibmqx2') rend('ibmq_16_meend('ibmq_armorend('ibmq_athere	sm_simulator') from IBMQ(hub=from IBMQ(hub='ibm-q', group=elbourne') from IBMQ(hub='ibm-q', qns') from IBMQ(hub='ibm-q', qns') from IBMQ(hub='ibm-q', qns')	<pre>n-q', group='open', project='main')>, group='open', project='main')>, group='open', project='main')>,</pre>
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I	Least busy: Operational Avg. T1:	_	ibmq_16_melbourne Num. Qubits: 15 Pending Jobs: 18 Least busy: False Operational: True Avg. T1: 54.6 Avg. T2: 53.1	<pre>ibmqx2 Num. Qubits: 5 Pending Jobs: 1 Least busy: False Operational: True Avg. T1: 58.6 Avg. T2: 35.8</pre>
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3 4 6 6 N	requencies, lable to the last of the last	onian has been tive qubit-qubit vity dressed from the dressing with units 20 he public, mission ar = & \\sum_{12} (O_i^2-O_i)+\\sigma_{13}^{+} \\sigma_{13}^{+}	projected into the zero excit flip-flop interaction. The requencies and not exactly will due to the qubit-qubit interesting values have been replaced in the image of the imag	ers,\n\ns\\sigma_{-} \\rightarTow bs,\n\ns\\s are coupled through resonator buses. The itation subspace of the resonator buses lead a qubit resonance frequencies in the Hamilto at is returned by the backend defaults, whis actions.\n\nQuantities are returned in anguly not all system Hamiltonian information is ed with 0.\n', 'h_latex': '\begin{align} \\a_{q,i}}{2} \((\mathref{A}(A
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